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GLADIOLUS FANCIER'S GUIDE BOOK

1946



HERBERT O. EVANS
P. O. — SOLON, OHIO

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Mrs. E. Both

INTRODUCTORY

A GAIN, this booklet is planned for you. It adopts your point of view. It gives you hitherto unpublished facts upon which to base your own conclusions. It is not cluttered up with fictitious values.

A small portion of the information in this booklet is repeated from last year. In such instances, the data is still so valuable that we cannot possibly leave it out.

This is our 18th annual catalog.

Undoubtedly you want others to admire your flowers, since appreciation of the general quality of your glads by your friends is gratifying. Our greatest effort is expended to eliminate your spending time on inferior sorts. To accomplish this we do not restrict our data to our own offerings and the more you read in this Guidebook the more you will be convinced that here is a little "instruction course" on Gladiolus with an irreducible minimum of bias.

For further valuable current literature on gladiolus, the one outstanding bargain is obtainable only through the Ohio State Gladiolus Society, the only society offering a four-way combination membership including The Canadian Gladiolus Society, the New England Gladiolus Society and we understand 4 quarterly bulletins of the North American Gladiolus Council, all for \$4.25 . . . a \$6.00 value. Past experience relating to early exhaustion of the Year Books dictates the warning that acceptance of this offer should be made before the end of February. For more complete information see our "Society Page," page 34 hereof.

Our business is growing by leaps and bounds. Our ability to answer correspondence on relatively unessential subjects has almost reached the vanishing point. We pack our booklet with many pages of answers to many questions we get nevertheless. Every question vital to the selection and growing of good glads we think we have already answered somewhere in this booklet.

However, we will not allow the business to reach the stage, all too common, where the proprietor no longer is able to personally inspect the outgoing stocks for complete freedom from injurious insects and bulb diseases. Our past customers know what quality of bulbs they will get. Our reputa-

tion for sound bulbs is more than national. Our reputation for offering only the very best varieties to be found around the world is equally broad. We plan to keep it that way.

Horticultural costs have gone up and will go higher. Paper and printing and cartons, too.

A grower-cataloger of bulbs has certain inescapable costs: planting stock, use of land, its preparation, planting, cultivating, digging, hauling, curing, cleaning, grading, storage quarters, fumigating or other processes to combat insects and bulb diseases, advertising of one form or another, catalogs, postage, packing and shipping. There may be additional items of overhead such as clerical, irrigation, spraying, etc.

Heavier buying of the newer sorts has eaten into what should have been retained for propagating reserves.

We do not issue a fall list and we do not solicit "pre-catalog" orders. Most of them require later revision because of abandoned varieties and price reductions. We do recommend that you place your order soon after receipt of this Guidebook to avoid, in so far as it is possible, the disappointment of sold out items. Especially as to seeds.

This business is still competitive but prices, particularly on the cheaper "standards" are up a bit to cover costs. In order to reduce clerical work and the general confusion resulting from discount items and net price items, the discounts are abandoned but the prices of most of the newer sorts are reduced to compensate and in many cases are lowered beyond that point.

Over the years we have built up an enviable reputation for generous filling of orders by medium of overcount, oversize, samples of new sorts to try, free bulbs for society memberships, free memberships and color charts, etc.

We appreciate receiving a portion of your bulb purchases. We do not necessarily solicit it all. By inducing you to seek society literature we deliberately put you in contact with the advertising of our "fiercest competitors"—J. D. Long, Elmer Gove, Carl Salbach and a host of other long time friends in the industry.

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COLOR CLASS TABULATION OF 1945 WINNERS

This tabulation of 1945 winners, coupled with like tabulations in our Guidebooks of recent years and those to follow, presents the best bird's eye view possible of the development and ebb of popularity of varieties. The listing includes every variety winning 3 or more first prize or special awards in 13 major gladiolus shows, mostly in central U. S. and Canada, namely: Canadian national, Quebec Society host, Chagrin Falls, Ohio, Conn. state, Ill. state, Ind. state, Ohio state (2 shows), S. E. Mich., Tri State (Wellsville, Ohio), West Va. state, Winnipeg (2 shows) and Wis. state.

February, 1944, representatives of about 20 states (N. E. G. S. host) met at Pittsburgh to attempt restandardization of gladiolus classification which was rapidly disintegrating due to various and sundry efforts to improve upon the size classification first adopted by the Ohio society eleven years ago and shortly followed by the then existing National Commercial Growers Association, the American Gladiolus Society and most of the U. S., Australian and Canadian societies with minor variations. At that time the A. G. S. and N. E. G. S. policies were formed largely by commercial growers attentive to the needs of the gladiolus industry as a whole and the 3 size classification was adopted as simple and understandable.

At the moment we have a 5 size classification adopted by this group and reversing the direction of standard numbering series to "500 Giant, 400 Large, 300 Medium, 200 Small and 100 Miniature". The Ohio society (yours truly delegate) did not vote in favor of the change from 3 to 5 sizes. Why the delegates didn't take a fling at reversing the size of bulbs to number 6 for the largest size bulbs, etc., for good measure we wouldn't know. But we do know from 18 years of selling experience that our customers will not buy from us varieties under 3 inches so the added effort of tabulating the new 100 and 200 series will not be here undertaken. And we feel that long after our time people will still be calling glads "large, medium, and small".

At a further similar conference meeting at Detroit in 1945, the new North American Gladiolus Council was organized with 18 state societies participating. This Council is issuing an interesting Quarterly Bulletin (see "Society Page", page 34) and a selected list of about 2200 gladiolus varieties classified for show prize schedule purposes.

We have undertaken here to correct some apparent size and color errors but we cannot guarantee that the corrections will be "officially" adopted.

Varieties are listed within their classification in the order of **OUR** preference, reflecting **OUR** opinion of their relative worth. The first number after variety name indicates the number of 1st prize awards. The second number indicates the number of special awards, section, division and grand champs and Awards of Merit. Those varieties showing no awards in this area in 1945 and those with less than 3 awards, it is necessary to include in order to reflect our opinion of their relative worth. As these are further propagated and become more widely disseminated we expect them to win their share of the awards.

GIANT	LARGE	MEDIUM
500 Series (over 5½ inches)	400 Series (4½—5½ incl.)	300 Series (3½—4¼ incl.)
500 White—	400 White	300 White
Snow Cruiser 2-0	Myrna 25-7	Lord Selkirk 1-0
Crystal 4-0	Igloo	Alpine
Silver Wings 5-1	Matterhorn	White Eagle 3-2
	Snow Princess 3-0	Pearl Harbor 4-0
501 White +	401 White +	301 White +
Margaret Barrett	Margaret Beaton 16-1	Robert Shippee 1-0
Mt. Index 5-0	Caribou 2-0	Bob White 1-0
Coronado	Silentium 3-0	White Orchid 1-0
506 Cream	406 Cream	306 Cream
Leading Lady 13-7	Lady Jane 10-1	Mary Elizabeth 3-0
June Bride 1-0	Wanda 3-0	Green Light
Shirley Temple 4-0	Carry On 1-0	
White Gold 9-3	Ivy Robertson 3-1	
Empire State		
Bingo 3-0		
510 Light Yellow	410 Light Yellow	310 Light Yellow
Sir Galahad 12-0	Royal Gold 2-0	Elizabeth Maier 6-1
Chagrin	Golden Chimes 2-0	Cut Up
Golden Galleon	Crinklecream 3-0	Harvest Moon
Discovery 1-0	Martha Dean 1-0	Yellow Paradise 2-1

GIANT

500 Series (over 5½ inches)

512 Deep Yellow
Golden State 5-0
Laburnum

516 Buff
Helen of Troy 15-7
King William 3-1
Dr. Whitely 3-0

520 Orange
Bobby Dazzler 4-0
Diane 2-0
Palermo

530 Light Salmon
Mrs. E. Both
Marlene Both 4-2
Picardy 12-3
King of Hearts 2-0
Eglantine 2-1
Bengasi 1-4
W. R. Reader

532 Deep Salmon
Harmau 3-0
Aladdin 5-0
Marguerite 4-0
Titan 1-0
Ogarita 2-1

536 Scarlet
Tunia's Marvel
Destiny 3-0
Tunia's Triumph 3-0
Walk Over 2-0
Commando 2-0
Blaze (Mar.) 3-0
Marsellaise 3-0

540 Light Pink
Stella Antisdale 7-0
Corona 14-2
Big Top 6-4
High Command
Grand Opera 1-0
New Zealand Splendor
Merry Widow
Capeheart 3-1

542 Deep Pink
Essa Marie
California 9-1
Summer wealth

550 Light Red
Ohio Nonpareil 3-0
Dr. A. J. Verhage
Gypsy Lass
Intruder 2-0
Daniel Boone
Mammoth Ohio 0-1

552 Deep Red
Rodney 3-0
Hindenburg's Mem. 3-0
Signal Ohio
Oregon Red 2-0

554 Black Red
Rich Red 1-0
Black Panther 1-0
Rewi Fallu 10-0

LARGE

400 Series (4½—5½ incl.)

412 Deep Yellow
Spotlight 4-0
Amberglow 6-0
Tahlahneka

416 Buff
Mrs. Blanden
Athlone 1-4
Amulet 1-1
Paradise 3-0
Alsace 3-0

420 Orange
Tuts Both 5-2
All Glory
Dazzler 2-0
Lantana 1-0
Coral Glow
Hurricane 6-3
Drum Major 2-2
Orangold 4-0

430 Light Salmon
H. B. Pitt
Jeanie 7-0
Victory Queen 1-1
Kestrel 1-0
Glamis 2-1
Don Bradman

432 Deep Salmon
Spitfire 8-7
Tara
Kildonan 3-0
Vista Bonita 2-0

436 Scarlet
St. Edward 1-0
Algonquin 19-7
Beacon 4-0
Southern Drama 1-0
Bush Ranger
Regent
Valeria 1-0

440 Light Pink
Mystery 2-2
Greta Garbo 8-6
Star Gazer
Conn. Yankee 2-0
Algoma
Rima 3-1
Candy Heart 5-0
Criterion
Ethel Cave Cole 6-3

442 Deep Pink
Peggy Lou 7-0
Flora Farmer
Cover Girl 1-0
Marion Pearl 2-0
Wings of Song 4-0

450 Light Red
Thriller
Globe Trotter 3-0
Rocket 7-0
King Bee 6-0
Hawkeye Red
Stoplight
Red Lightning 3-0

452 Deep Red
Firebrand 3-1
Red Charm 25-5
King Click 4-1
Red Viking 1-0
Armada

454 Black Red
M. Trevan 2-0
Mohawk 1-0
Black Opal 11-0

MEDIUM

300 Series (3½—4¼ incl.)

312 Deep Yellow
Golden Goddess 2-2
Mother Kadel 8-4
Yangtze 2-0
Golden Teton 4-0
King Midas 3-0

316 Buff
Donna 2-0

320 Orange
Acca Laurentia 1-0
Golden Queen
La Fiesta 1-0
Bit o'Heaven 10-1

Light Salmon

332 Deep Salmon
Margaret Fulton 6-1
Bonneville 2-0

336 Scarlet
Mrs. R. McGovern 1-0
Firefly 6-0

340 Light Pink
Camelia 4-0
Bleeding Heart 2-0
New Era 4-2

342 Deep Pink
Frost Pink 1-0
Santa Rosa
Pink Paragon 3-1

350 Light Red
Red Phipps 2-0

352 Deep Red
Harlekin
Summer Fragrance 1-0

354 Black Red
Oeganda
Black Diamond 5-0
Red Velvet

GIANT

500 Series (over 5½ inches)

560 Light Rose

Coutts' Orchid 2-0
Aurora
Festival Queen
Sensation 5-0

562 Deep Rose

Malta 2-0
Burma 5-0

566 Lavender

Minstrel
Elizabeth the Queen 18-0
Jubilee
Rose o' Day 2-0

570 Purple

Mrs. Mark's Mem. 4-0
Convoy 1-0
Takina 3-0
Parnassus 3-0

576 Light Violet

Blue Ice
Raysheen
Blue Triumphator

578 Deep Violet

Pansy Blue

580 Smoky

Tunia's Mahomet 7-0
Flying Fortress 1-0
High Finance 5-0
Misty Dawn 1-0
Caroline W. Gannett 3-1

590 Any Other Color

R. B. 5-2

LARGE

400 Series (4½—5½ incl.)

460 Light Rose

Rosa Van Lima 7-0
Sunrise 1-0
Miss Wisconsin 5-1
Ballad 1-0
Chamouny 6-1
Barbara 1-0
Cape Cod 1-1

462 Deep Rose

H. R. Hancock 1-0
Leona 2-0
Red Lory 2-1
Timbuctoo 1-0
Silvery Teton 2-0

466 Lavender

Minuet 7-0
Huntress 1-0
Badger Beauty 4-0
King Arthur 1-0
Islla Bella 3-0

470 Purple

Lancaster 2-3
Elanora 2-0
Stapleford
Vulcan 2-0
Purple Supreme 3-1
King Lear 15-1

476 Light Violet

Blue Beauty 12-0
Pfizer's Success
Allegro
Blue Wonder 1-0

478 Deep Violet

Tunia's Blue
Robert Burns
Blue Orchid 1-0

480 Smoky

Pastel 2-0
Gray Dawn (Both)
Zuni 3-0
Mother Machree 5-0
Bagdad 3-0
Irak 3-0

490 Any Other Color

Buckeye Bronze 10-0
King Tan 1-0
Xerxes
McArthur
Sahara 4-0
Recado 2-1

MEDIUM

300 Series (3½—4¼ incl.)

360 Light Rose

Charmaine 3-0

362 Deep Rose

Diplomat
Early Rose 2-0
Dream o' Beauty 3-0

366 Lavender

Gertrude Swenson 1-1
Lavender Queen 5-0
Colonia Maid 2-1
Abigail 3-0

370 Purple

Herbstfreude
Havelock 1-0
Gloaming 5-0
Charles Dickens 2-0
Koran

376 Light Violet

Max Reger 2-0

378 Deep Violet

Oberbayern 1-0
Rudolph Serkin
Blue Admiral 6-1

380 Smoky

Intrepid 1-0
Susan 3-0

390 Any Other Color

Vagabond Prince 17-0
Pinocchio 5-0

NATIONAL CONFERENCE AND THREE DAY SHORT COURSE

The third N. E. G. S. conference, Mich. State Gladiolus Soc. host, with Mich. State College furnishing the site, Hort. Bldg., East Lansing, February 21-23, 1946, a convenient date. With state and college entomologists, pathologists and professors lecturing on DDT and insect control, bulb and plant diseases, soil and fertilizer problems, trial grounds, color slides of latest varieties, perhaps a bulb auction, etc. No fees. Plan to attend if at all possible. For hotel reservations try Olds Hotel, Lansing.

THE OHIO ANNUAL EXHIBITION, 1946

The 1945 exhibition has been widely proclaimed the best gladiolus show in all world history, not forgetting national, regional and foreign. The attendance was 12,500 and they will all be back again bringing many others on August 26-27, 1946 at the same wonderful Higbee Co. Auditorium on Cleveland's Public Square. Innovations we take pride in having proposed made the second day of the show a spectacle never to be forgotten . . . most all blooms still fresh and with 30-50% more florescence than on opening day. Ohio society

exhibitors grow the best and latest recent introductions and have growing and exhibiting skill seldom equalled anywhere. Many of them migrate to shows outside the state, about two a year, such as to W. Va. and Indiana, always making top-heavy impression on the major prize awards. Plan now to come to Cleveland and see them perform at their best on their home grounds. Classes wide open to all. No entry fees. No admission fee. If you can bring some of your own best spikes, write to us for a free Prize Schedule.

From Elmer Gove, Burlington, Vt., 9-7-'45. "Dear Herb:—Want to congratulate you on the wonderful show you put on at Cleveland. It was about the best I have ever seen and certainly the finest location for it."

THE OHIO RECENT INTRODUCTION AND SEEDLING SHOW

September 8, 1946, at our farm, Solon, Ohio. An extremely well attended show concentrating on the best of the recent introductions and fine seedlings entered specifically for possible Awards of Merit. Here we are often able to exhibit newly imported varieties a year or two before U. S. government release to sale. Last year we showed 19 such and this year we should have more and from larger bulbs as well.

From G. W. Wilson's 1946 catalog: "By the way, the Ohio State second show held at the Herbert O. Evans 'farm on next September 8th is the one place to go if you want to see plenty of top spikes and get mixed up with tons of good eats."

ANALYSIS OF LAST PUBLISHED SYMPOSIUM RATINGS

The Canadian Gladiolus Society Symposium, with participation limited to about ninety ranking growers and amateurs, classifies about 800 leading varieties "A" for outstanding, "B" good, "C" fair, "D" discard.

You may notice we have been closely anticipating the symposiums in our offerings for many years past. Undoubtedly our customers know this. And we are also offering now quite a number of varieties you will find appearing in the next symposiums. The % of "A" votes is based on a minimum of 15 voters reporting on the particular variety.

We prefer not to publicize faults or in any way discredit varieties we do not list. Therefore, with perhaps better experience than the average voter in the symposium, we just did not list several of the best 25 in the previous symposium and now find our judgment justified by their complete disappearance from the first 48 in the current symposium. The new faces in this list are in italics.

CANADIAN G. S. 1944				
Rank	Variety	% of A Votes		
1	Red Charm.....	93.44	23	<i>Lantana</i> 66.66
2	Myrna.....	87.69	24	Mrs. Mark's Memory..... 65.91
3	Greta Garbo.....	87.30	25	Minuet..... 65.57
4	Lady Jane.....	84.61	26	Snow Princess..... 65.38
5	Picardy.....	83.78	27	<i>Sir Galahad</i> 62.50
6	Helen of Troy.....	82.97	28	Algonquin..... 62.50
7	<i>Convoy</i>	81.25	29	Vista Bonita..... 61.53
8	<i>Burma</i>	80.00	30	Black Opal..... 60.93
9	Caribou.....	78.26	31	<i>Rosy Morn (Mar)</i> 60.71
10	Glamis.....	77.77	32	<i>Queen of Bremen</i> 60.71
11	<i>White Gold</i>	76.19	33	Vagabond Prince..... 57.35
12	<i>Avalon</i>	75.61	34	Silentium..... 57.14
13	Elizabeth the Queen.....	75.51	35	Aladdin..... 56.71
14	<i>Moneeta</i>	75.00	36	Edelweiss..... 56.66
15	W. R. Reader.....	73.68	37	<i>Rima</i> 56.09
16	<i>Winston</i>	72.72	38	Zuni..... 54.54
17	Corona.....	71.79	39	Blaze (Marshall)..... 53.84
18	<i>Arctic Snow</i>	71.42	40	Royal Gold..... 53.84
19	June Bride.....	70.58	41	<i>Stella Antisdale</i> 53.33
20	Margaret Beaton.....	70.58	42	<i>Ballad</i> 53.33
21	<i>Mermaid</i>	68.00	43	Beacon..... 53.03
22	<i>Yangtze</i>	66.66	44	<i>Rosa Van Llama</i> 52.94
			45	<i>Barbara</i> 52.63
			46	<i>Zona</i> 51.58
			47	Elanora..... 50.00
			48	Blue Beauty..... 50.00

TOP AND 2nd RATING VARIETIES IN ADOPTED COLOR CLASSES OF
CANADIAN G. S. 1944

White and Creamy W.....	Myrna	Scarlet, Light Red.....	Algonquin
	Lady Jane		Beacon
Blush White.....	Avalon	Red, Crimson, Dp. Red.....	Red Charm
	Corona		Com. Koehl
Light Yellow.....	Royal Gold	Maroon, Black Red.....	Black Opal
	Fairy Queen		Arabella
Deep Yellow.....	Yangtze	Lt. Mauve, Lav., etc.....	Eliz. the Queen
	Golden Goddess		Minuet
Orange to Buff.....	Helen of Troy	Med., Dp. Mauve, etc.....	Gertrude Swenson
	Lantana		King Arthur
Light Salmon, Lt. Rose.....	Greta Garbo	Purple.....	Convoy
	Picardy		Mrs. Mark's Mem.
Sal., O. S., Red Sal.....	Aladdin	Light Violet.....	Blue Beauty
	Blaze (Mar)		Pfitzer's Success
Rose Sal., Sal. Rose.....	Glamis	Med., Deep Violet.....	Blue Admiral
	Vista Bonita		Robert Burns
Medium, Deep Rose.....	Burma	Smoky, etc.....	Vagab'd Prince
	W. R. Reader		Zuni
		Lt. Colors—Dp. Blotch.....	Moneeta
			Margaret Beaton

NOTES: Restriction on import into Canada (now ended) has retarded the appraisal of many varieties. However, the following had "A" average rating but not enough voters to score—Athlone, Badger Beauty, Beauvallon, Benison, Black Magic, Bobby Dazzler, Commando, H. B. Pitt, High Command, Highlight, Jeanie, Laburnum, Leading Lady, Legend, Malta, Margo, Marion Pearl, Marseillaise, Pandora, Purple Supreme, Rosy Morn (Riley), Spitfire and Susannah.

CANADIAN G. S. 1945 RECENT INTRODUCTION SYMPOSIUM

Information being more limited, the voting was small. Listing here varieties obtaining 3 or more votes net, after deducting the number of B, C and D votes received, if any.

Burma (24-8).....	16	Red Viking (7-1).....	6
Bengasi (14-1).....	13	Dr. Whitely (7-1).....	6
Spotlight (15-4).....	11	Eglantine (8-2).....	6
Minstrel (18-7).....	11	Ballad (11-5).....	6
Lantana (18-9).....	9	*Leading Lady (5-0).....	5
Mystery (10-2).....	8	Hostess (5-0).....	5
Lancaster (11-3).....	8	Golden State (7-3).....	4
Alpine (11-3).....	8	Dunkirk (4-1).....	3
Essa Marie (12-5).....	7	Conn. Yankee (6-3).....	3
Stoplight (8-1).....	7	Grenadier (7-4).....	3
W. R. Reader (19-12).....	7	Commando (11-8).....	3

* Leading Lady, a '42 introduction, scored thus in the '44 Symposium and was inadvertently omitted in the '45 voting list. Having good color and the Canadian raised Picardy habits, Leading Lady is bound to come very close to the top of the list in the coming 1946 full symposium. The same line of reasoning could apply to Silver Wings. Tunia's Mahomet and Tunia's Marvel (first available to purchase in U. S. and Canada '43) were also omitted from the list by mistake.

Further study of this list, coupled with our own intimate knowledge of the varieties, we would consider it likely that Leading Lady and Mystery will make the best 5 and Lancaster and Spotlight will enter the best 10. Convoy is a beauty but is a bit shy on number open and color peels slightly in soggy weather and will likely drop in the list. Glamis peels its color considerably in soggy weather, eliminating it from our catalog and it will very likely lose its place in the best 10. Incidentally, Purple Supreme shared the same fate in our catalog last year for the same reason.

Burma, though having grand floret form, has a color not very popular with florists, a red purplish rose, we would call it, not to mention some other faults and may be displaced. Caribou, we feel, got into the best 10 by heavy voting in its own bailwick and is entirely unlikely to ride out the up-surge of Leading Lady, Mystery, Corona, Firebrand, Lancaster, Spotlight and others. It is hard for us to guess where Tunia's Mahomet, Tuts Both, Marlene Both, etc. will place in a Canadian symposium for a couple more years since war time restrictions limited imports to \$4.50 and bulblets mostly were purchased. These have to be regrown a couple times before their presence will be much felt.

Elizabeth the Queen does not meet our ideals for color harmony nor do some of its growing habits, but partly for lack of class competition it has piled up an enviable record of 18 wins in our '44 tabulation and 18 again in '45, so we think it may gain somewhat undeserved prominence for one or two symposiums to come.

GRAND CHAMPION BLOOMS

The Grand Champion Bloom of the Show is, ipso facto, a sweepstakes award to the best spike in the Exhibition, wherever found.

Some (not many) hybridizers and catalogers are very loose in their use of the words "Winners," "Champions," etc. For your own protection, scrutinize these assertions closely and see if the winning is identified to time and place. An honest introducer of new varieties will be reasonably sure to specify rather than generalize or use language intended to deceive.

In recent years many of the larger shows have provision for sectional and division champions. Topping these, most sizeable shows now provide for the single spike Grand Champion Bloom of the Show. A few of them, where enough hybridizers exhibit to warrant, provision is made for Champion Seedling Bloom.

Grand Champions in major shows about the world inside the last eight years follow:

- Abe**—Wash., '40.
- Aladdin**—Ind., '38; Yakima and Winnipeg, '39; 2nd Calgary show, '40; East Bay, '41; Md., '42; Sask. and E. N. Y., '43; LeRoy, Ill. and Yakima Valley, '44; Yakima, '45.
- Algonquin**—Sioux City and Grants Pass, '41; Wis., Wellsville, O., Le Roy, Ill., '45.
- American Commander**—W. Va., '40.
- Avalon**—2nd day Winnipeg, '45.
- Bagdad**—Quebec, G. S., '35; Yakima, '38; Pa., '39.
- Beacon**—Wash., '38; Wellsville, O., '39; Utah, '41.
- Beauty Clinic**—Ames (Ia.), '43.
- Bengasi**—Momence, Ill., '44.
- Big Top**—Tri State, Wellsville, O., '44.
- Bingo**—Waterloo, '42; Ill., '43.
- Blue Wonder**—Tasmania, '41.
- Caribou**—Québec, '42 and '43.
- Capeheart**—Momence, Ill., '45.
- Caroline W. Gannett**—Empire, '42.
- Chamouny**—E. Bay, '40; 2nd day, Akron, Ohio, '44.
- Colossus**—Metro., '39.
- Col. Wm. Light**—Melbourne, Australia, '44. 2nd Pt. Adelaide, '45.
- Commander Koehl**—Regina, '38; Hamilton Dist., '40.
- Corona**—Blue Ridge (Md.) and 1st Ohio Show, '42; So. Minn. and Victoria (Austr.), '43; Akron, Ohio and Ottawa, Ill., '44.
- Crystal**—So. Australia G. S., '37; Wyo., '41.
- Dazzler**—Ohio, '38.
- Del Ray**—Ill., '38, Nebr., '41.
- Donna**—2nd day Ohio, '43.
- Dr. Whitely**—Empire, '43.
- Elizabeth the Queen**—Ames (Ia.), '42.
- Elizabeth McCombs**—N. Z. G. S., '44.
- Essa Marie**—Hamilton, Ont., '44.
- Ethel Cave Cole**—2nd Calgary, '41.

- Fata Morgana**—West Australia, '41.
- Ferdinand's Fancy**—Utah, '40.
- Festival Queen**—Sydney, Austr., '41.
- Flagship**—C. G. S., '39.
- Frank J. McCoy**—C. G. S., Ames and Sioux City, '38; Conn. and Saskatoon, '39; Ill., '40.
- Gertrude Swenson**—Pac. N. W., '41.
- Grand Opera**—Chagrin Falls (Ohio), '43.
- Greta Garbo**—Wyo., '42 and North Bay (Ont.), '42; Wellsville (Ohio), '43. 1st Edmonton, '44; Winnipeg, '45.
- Harmau**—Queensland, '40.
- Helen of Troy**—Grant's Pass, '40; 2nd day, Chagrin Falls, Ohio, '44; W. Va., '45.
- Heritage**—Grants Pass., '39.
- High Finance**—Mah., '37. (2nd Show)
- Hindenburg's Memory**—Parramatta, N. S. W., '39; Thunder Bay, '42.
- Intermezzo**—Deerfield (Ill.), '43.
- Intrepid**—Md., '45.
- Ivy Robertson**—Ia., '45.
- Johan Van Konynenburg**—3rd show Haarlem, '45.
- Keystone**—Pa., '40.
- Kildonan**—Winnipeg, '41.
- King Click**—Ohio, '40; S. E. Mich., '41; Pa., '42; Ohio, 2nd show '43.
- King Midas**—Blue Ridge G. S. (Md.), '39.
- King of Hearts**—Ohio, '43.
- King Tan**—W. Va., '44.
- Laburnum**—Winnipeg, '39.
- Larime**—Wellsville, '42; 2nd day Ohio, '43.
- Leading Lady**—Chicago, Conn., N.E.G. S., '44.
- Leona**—Md., '41.
- Llona**—2nd day Midwest, '43.
- Lord Selkirk**—Minn., '38, '39; Winnipeg, '40.
- Luminosa**—Utah (1st show), '39.
- Madeleine Brown**—S. E. Mich., '44.
- Malta**—Cedar Rapids, Ia., '44.
- Margaret Beaton**—E. N. Y. (Rhinebeck) and Ind., '40; Minn., '42; Sheboygan, Wis., '44.
- Marguerite**—Wash., '39.
- Marion Pearl**—Champaign Co., Ill., '45.
- Marlene Both**—Perth, West Austr., '44.
- Marseillaise**—Wisc., '41.
- Maxwellton**—Algona, '39.
- Melrose**—Melbourne, '39.
- Milford**—Okla., '42.
- Minstrel**—2nd day, Ottawa, Ill., '44.
- Minuet**—Springfield, Ill., '45.
- Miss New Zealand**—Sioux City, Oamaru, N. Z., Launceston, Tas. (shown with 12 open), N.Z.G.S. (2nd day), and Thunder Bay, all '39. Regina and Wilkie, '40; Wilkie, '41; Wash., '42; Champaign, Ill., '44.
- Mother Machree**—E. S. G. S., '40; C. G. S., '41.
- Mrs. E. Both**—So. Austr. G. S., '40.
- Mrs. G. G. Errey**—Hobart (Tas.) and Malvern (Vic.), '39 and '41.
- Mrs. Vic. Stevens**—1st Pt. Adelaide, Australia, '44.

Myrna—Md, '39; E. N. Y. (N. Y. City)-'40; W. Va. and Pa., '41; Winnipeg, Midwest, Oshawa and Calgary, '42; W. Va., Midwest, C. G. S.,—Winnipeg, Blue Ridge (Md.) and Pac. N. W., '43; Md. and No. Mont., '44; Ind., Maine and Verdun, '45.

Mystery—C. G. S.—Quebec, '44.

New Era—Midwest, '41; Champaign and Springfield (Ill.), '43; Springfield, Ill., '44.

New Zealand Splendor—Lyttleton, N. Z., '39; Mah., '41.

Ogarita—Ottawa (Ill.), '43; 2nd day, Cleveland, Ohio, '44.

Oregon State—E. N. Y. G. S., '41.

Our Selection—Canterbury (Vic.) and Sandringham (Vic.) '39.

Pacemaker—Mah. (2nd show), '39.

Peggy Lou—Mah. G. S., '37, '38; N.E.G.S. Brockton, East Bay and Wellsville, '38; Mah. (1st show) and Mich., '39; Wisc., '40; Cedar Rapids, '41; Utah, '42.

Pfitzer's Masterpiece—Calgary (1st show), '39; S. E. Mich., '40; No. Bay (Ont.), '42.

Picardy—N. E. G. S., Wisc., Iowa, Cedar Rapids, 2nd Calgary, all '38; Marion Co. G. S. (Ind.), So. East Mich. G. S., Ames, Mid-South, Wisc. and East Bay, all '39; Iowa, Cedar Rapids, Sioux City, Quebec, Mich., N. E. G. S., all 40; Marion Co., Ind. and E. S. G. S., '41; Sask. and C. G. S.,—Hamilton, '42; Madison (Wis.), No. Minn. and Wyo., '43; Mont., '44.

Pink Selection—Tasmania (Feb.) '38.

Pirate—Utah, '38.

Pititi—Papanui, '34; Timaru (N. Z.), '39.

Queen Mary—Seddon (Vic.), '39; Minn., '40.

Rapture—Mid-So., '38.

Rangatira—N.Z.G.S. (1st day), '39.

Ravel—2nd Haarlem, '45.

R. B.—Cedar Rapids, '42; Calgary, '44.

Recovery—Blue Ridge (Md.), Marion County (Ind.), '38; Ill., '39.

Red Charm—2nd Edmonton, '44; 2nd day Ohio, '45.

Red Lory—Snohomish Co., '39; Maine and Yakima, '41.

Red Viking—Verdun, P. Q., '43.

Reverie—Utah (2nd show), '39.

Rewi Fallu—Hasting (N. Z.), Wellington (N. Z.), '39; 2nd Ohio, '41.

Rose Defiant—Wellsville, O., '40.

Rosemarie Pfitzer—Calgary (2nd show), '39; 1st Calgary, Edmonton and C. G. S., all '40.

Rosex—2nd N.E.G.S.—Brockton, '38.

Salman's Glory—1st Haarlem, '45.

Sensation—Hamilton, '41.

Shirley Temple—Eastern N. Y. G. S., '39; Sheboygan, Ill. and N.E.G.S., '41.

Silvery Teton—Marion Co., (Ind.), '40.

Sir Geo. Murray—So. Austr. G. S., '38.

Smiling Maestro—Wash., '41.

Snow Cruiser—Ohio, '41.

Southern Command—Dunedin (N. Z.), '39.

Spitfire—2nd Ohio, '42; same, Cleveland, Ohio, '44; Ohio, '45.

St. Edward—Kensington (So. Australia), '37.

Stella Antisdale—Ohio, '39.

Strathnaver—2nd So. Australia, '41; Ballarat, '45.

Summer Gal—Conn., '45.

Sunnyside—Box Hill (Vic.); Blackburn, (Vic.) '39.

Surfside—Md., '43.

Tasman—Nelson (N. Z.), '39; Freemantle, W. Austr., '39.

Thriller—Mich., '41.

Tip Top—SW. Va., '41.

Tivoli—4th Haarlem, '45.

Vagabond Prince—Algona, (Ia.), '40; Ames, '41; S. E. Mich., '42.

Vista Bonita—N. E. G. S., '42 and '43.

White Gold—S. E. Mich., '45.

Wings of Song—Iowa, '39; Md., '40; Nebr. and Ia., '42.

W. R. Reader—Calgary, '43.

Zuni—Grants Pass., '38; Thunder Bay, '40; Regina, '41; Algona and Yakima Valley, '42.

CHAMPION SEEDLING BLOOMS

Following seedling champions were not merely winners in their classes of certain types. They were champion seedlings, all types competing. Not many Prize Schedules make provision for this competition, it being most popular, apparently, in Ohio, Australia and New Zealand.

All Glory—N. Z. G. S., '44.

California Rose—(Salbach) East Bay, '39.

Chagrin—(Evans) W. Va., '41; also 2nd Ohio show, Cleveland, Ohio, '43.

Col. Wm. Light (E. Both)—So. Australia G. S., '36.

Crystal (E. Both)—So. Australia G. S., '37.

High Finance (Wilson)—Mah., '37 (was also grand champion.) (2nd Show)

Hurricane (Evans)—Mah., '41.

Kawatiri—Wesport, N. Z., '44.

Kildonan—Winnipeg, '41.

King Click (Wilson)—Ohio, '40 (was also grand champion).

King William (Schenetsky)—Conn., '37.

Laburnum (Almey)—Winnipeg (also grand champion), '39; Midwest, '42.

Larime (Wilson)—Wellsville and 1st Ohio, '42.

Madeleine Brown—(Maier) S. E. Mich., '44; (also Grand Champion).

Peggy Lou (Wilson)—Pa. G. S., '37; Mah., '37 (also grand champion at latter).

Red Viking—(McDougall) Quebec, '42 and Verdun, P.Q., '43 (also Grand Champion,

Sir Geo. Murray (E. Both)—So. Austr. G. S., '38 (also grand champion).

Snow Cruiser (Evans)—Ohio, '41 (also grand champion).

Spitfire (Evans)—Ind., '38.

Stella Antisdale (Evans)—Ohio, '39 (also grand champion).

Strathnaver—2nd So. Austr., '38.

Thriller (Evans)—Mich., '41 (also grand champion).

Tunia's Marvel (E. Both)—So. Austr. G. S., '40.

Victory Queen—(Wilson) Tri State, Wellsville, O., '41.

COLOR CHAMPIONS

It is to the credit of the Tasmania Gladiolus Society to have hit upon this desirable addition to our shows. Without genuine color appeal no new seedling should be introduced. Ohio Society adopted the idea in 1943.

D. Both's Memory—2nd Tasmania G. S., '45.

Frances Irwin—Akron, Ohio, '44.

H. R. Hancock—Ohio, '43.

Tunia's Mahomet—Tasmania G. S., '41 and '45.

Tuts Both—Cleveland, Ohio, '44.

Drum Major—Tri State, Wellsville, Ohio, '45.

BEST RECENTS, '45 SHOWS

Algonquin at Springfield, Ill.

Athlone, Ill. state.

Aurora, Momence, Ill.

Big Top, S. E. Mich.

Burma, S. Minn.

Hurricane, Wis. state.

Kenwood, Mont.

Lancaster, Ind. state.

Leading Lady, 3 spike, Ohio state.

Lovely Lady, Verdun.

Marlene Both, W. Va. (also "Most Beautiful").

Purple Supreme, 2nd Ohio.

Spitfire, Ohio state (also Grand Champion).

Tuts Both, Chagrin Falls, Ohio (Reserve Champion).

INVESTMENT

Buying seemingly expensive bulbs of new introductions of proven merit is an investment seldom given proper consideration. A single medium (half size) bulb, an average from our list, will normally produce a spike approximately 70-80 percent of capability of a large bulb (not just 50 percent) and while doing it grow into a large bulb and produce on an average of 50 sizeable bulblets. In two more years of propagating one may well have 50 large, 200 medium, 500 small bulbs and 7500 bulblets. This expectancy has the earmarks of a good investment. But does it? Not unless two further facts are present. First, if the variety does not prove up to expectation and representation, the investment could be a loss of time and money.

Second, and of equal importance, the relation of the quantity bought to the whole amount extant, or extant in America is vital. When you invest \$1000 in a newly formed corporation you use care to ascertain if your \$1000 will net you 51 percent of the stock, or 10 percent or just 1-10th of 1 percent. Whale of a difference, isn't it, though costing the same. Same way with glads. Some introductions have been launched at beginning prices of \$5 to \$10 per bulb with 100,000 or more bulbs already propagated. Many more with little background of proven merit. What chance has your investment to prosper in such cases?

CANDID COMPARISONS

(at random)

The one outstanding bargain in current Gladiolus literature is the Ohio-Canadian-New England-North American Gladiolus Council 4-way membership combination, bringing you two big year books, six magazines and eight bulletins, a \$6.00 value, obtainable only through the Ohio Society, for \$4.25. See page 34.

Every year we receive many packages through the mails containing florets for identification or observation. Practically all are mush on arrival and identification of color hopeless and impossible. The only hope for intelligent reply is to send a bud or two showing color with enough stem to open the bud in water after arrival.

This year a mere price sheet would suffice to deplete our stocks down to propagating reserves, without the effort and cost entailed in this Guidebook but we have shouldered the work to keep our customers advised, as heretofore, of current show records and society ratings and literature status and up to the minute information on classification, culture and protective formulas for the storage and growing of prize winning gladiolus.

With more bulbs of Harmau and Stella Antisdale at large this year, we expect their recognition as among the world's best glads by all who see them.

See new terms of sale as respects methods of delivery on page 10.

In the Victory Garden no flower lends itself better to row crop planting and cultivating than the gladiolus, which are sure to produce beautiful bloom in an average of 80 days from planting, before most of the vegetables are ready to crop.

Be sure to read our accumulated up-to-the-minute data on the varied uses of DDT on page 32.

Evans "pulled a boner". Yes, in our '45 catalog we took up the numbering of seed crosses where we left off in '44, not noticing that the last number used (491) was a repeat from '43. Result numbers 501-524 inclusive were duplicated to identify new crosses. Suggest you prefix 45 (as 45-501) to your 1945 records to avoid confusion with the different crosses represented by these numbers in 1944.

The skilled show exhibitor realizes that his cultural care has less to do with the quality of the bloom secured than the quality of the bulb itself. That's where we strive to outdo the other catalogers. In one more respect as well. We do not think there exists another gladiolus catalog which perennially lists so exclusively the really top outstanding varieties the world affords. We are not kidding our thousands of repeat customers. This is something they have come to understand and appreciate. From a catalog just received from Holland—"Every one thinks his own geese swans." Our 18 years of show experience and new variety testing combine to exclude the "geese" from our listings.

Our business is so heavily repeat that we have to abandon from our list every year many common better standards still worthy of being grown, though their place is usually taken in our list by newer and better ones. So, fallen by the wayside are such varieties as Aladdin, Margaret Beaton, Marguerite Misty Dawn, N. Z. Splendor, Peggy Lou, Picardy, Silentium, Tunia's Triumph and Vagabond Prince.

Our winnings at Ohio state, '45. In spite of the fact that well over half the spikes we used were placed without exhibitor identification for technical show advantage in various places non-competitively, (example, all the blooms on the stage), nevertheless we did pick up 171 points in competition, the most by commercial member and for this we received the N. E. G. S. Silver Medal Award.

Mr. Salbach has had propagation difficulties like the rest of us and is unable this year to supply us with more bulbs of the "patents" than we now have on hand. "Pre-catalog" sales have wiped out the stocks of Helen of Troy, California and King of Hearts. We list large bulbs of Sir Galahad but they are unlikely to outlast several weeks of selling. His patent control of price dictates that these be sold at 35c each large rate for the first two named and for Sir Galahad and 50c each for the others. We have a few dozen large bulbs each of Grand Opera and June Bride which we will sell at 50c each (limit 3) till sold. Please specify substitution or refund if you undertake to order these.



Seedling grown from our seed by D.W. M. of Killarney, Man., who reports self color, beautiful shell pink, $4\frac{1}{4}$ inch florets, 28 inch flowerheads. Grew unsupported. Made 85 bulblets.

"A seedling from your 298 cross (Oeganda x Crystal) grew 70 inches tall, 8 open, 7 inch dia., solid color darker than Takina." 1-20-44. M. A. K., Rockwood, Mich.

"From a Spitfire x Merry Widow seed bought from you last year have an outstanding plant $5\frac{1}{2}$ feet high, very wide blade foliage, $2\frac{1}{2}$ in. 28 in. flowerhead, 16 buds, 10th bloom $6\frac{1}{2}$ in. dia. a soft rose with cream throat. Looks like an all-purpose winner." 10-3-'42. D. H. W., McDonald, Pa.

"As you know I purchased 5 seeds each of many lots. They germinated not less than 4 and thanks to your count many of the lots have 7 and 8 growing." 7-16'42. H. P. M., St. Joseph, Mo.

"I had very good success with the seed I purchased from you 2 years ago, especially with the Harmau cross. The seedlings from this cross are all clear color even though there is quite a range in the colors and the plants all seem to have unusually good vigor. I think your catalog is without doubt the best one issued and checking your ratings against the blooms at the Midwest show proves that." 3-1-'42. C. R. H., Quincy, Ill.

"Please don't forget to mail me a copy of your 1945 Glad "Fiends" Bible. Some of those seeds I bought from you are going to land in your catalog one of these days. 1-9-44 H. D. S., Jamesville, N. Y.



Seedling Cross 490 goes to town. Yours truly admires a seedling spike grown by Wells Knierim, President the Chagrin Valley Men's Garden Club. The spike opened 3 more florets before the bottom one faded.

"The spike you hold in photo came from a 5 cent seed of your cross 490 (Snow Cruiser x June Bride) purchased last year. The bloom arrived from small bulb in September too late for the shows.

However, with the help of your overcount I grew 8 small bulbs from a quarter's worth of seed from another cross 486 (Red Charm x Snow Cruiser). These ranged from about five eighths down to three eighths inch so I planted them only about 2 inches apart. But all made good spikes in rather clean medium-red color range and several of them were stupendous.

You saw two of them, one took a first prize ribbon as best red seedling in the Ohio State show at Akron and the following week at our show at Chagrin Falls the other one was section

champion after winning in the giant red color class. It held 6 florets open, 9 more showing color out of 24 bud total, lower floret measuring 7 inches. This spike then won for longest head and finally Grand Champion of the Show". 10-4-44, W. K., Chagrin Falls, O.

Sequel: Having his first large bulb of 486 in 1945, Mr. Knierim bloomed it for the 2nd Ohio show where it won the N. E. G. S. Rosette as Seedling Champion, from which point it went on to become both Color Champion and Grand Champion, scored 88 points and obtained Ohio's Award of Commendation. It had 7 inch florets, a 34 inch flowerhead, 24 buds of which 6 were open and 10 more in color. 9 open next day.

GROW SOME GLADIOLUS SEED

All glad fans should try some gladiolus seed. • Most advanced amateurs already do attempt some hybridizing with their newest varieties or most favored colors. Gladiolus seed broadcast or planted thickly in close rows, covered about $\frac{3}{4}$ inch, kept on moist side and with at least partial shade, commonly produces bulbs $\frac{1}{2}$ to $\frac{3}{4}$ inches diameter the first crop. Most of these bloom the second year and selections may be made on color values, the bulb selected and its bulblets thereafter grown under number pending full performance from a large bulb.

All modern varieties were so produced, either from field collected or hand hybridized seed. Our seed offerings are genuinely hand hybridized. Literally hundreds watched us hybridizing our glads at the peak of our blooming season. Most of the pollen used was taken from protected florets opened indoors. Mr. Lee Patton, for many years executive chairman and now Supervisor of Judges of the Ohio State Gladiolus Society, did most of the hybridizing.

No two seeds, even from the same cross and pod, produce flowers just alike, though they are likely to favor parent characteristics.

With about the most exclusive collection of "world beaters" to be found in the U. S., we have excellent opportunity to produce intriguing crosses, which in turn should rather consistently produce some seedlings above the average run of good standard varieties in each color class. They do for us. Witness that in 1941, in addition to quite a few blue ribbons, our seedlings won champion seedling award at W. Va., Ohio and Mich., two American Home Achievement Medals (W. Va. and Mich.) and two grand champion blooms of the show (Ohio state and Mich. state). The seed has equal chance to produce some good ones for you as what we plant is the unsold seed.

The only trouble is that we are as likely as not to part with some outstanding sorts worthy of introduction as a named variety. That may be your luck. If you grow such from our seed we should like first opportunity to introduce them for you.

It might be advisable to let you know that it is the custom in the gladiolus industry that the person who grows and segregates the seedling bulb is given the credit of being the "originator" of the variety if it is named and introduced—not necessarily the person who made the actual cross. If a lot of new "originators" do not appear in four to five years as the net result of our offering these select crosses we will be greatly surprised.

Permitting seed to set decimates bulblet production. Likely we sacrifice bulblets on rare new sorts to an extent that seed sales at these prices cannot remotely compensate us for this loss. Perhaps contribution to variety improvement will be our only compensation.

Try your luck and skill in selection of parents. Depending on stocks available we will try to be very liberal. **Seeds are 6c each.**

How to order. Order in units of 5 (minimum), 10, 15 or 20 (maximum) seeds of a given cross. The seed bearing parent is the first variety mentioned. Canadian and other foreign customers do not have to secure a permit to import seeds. Crosses are identified by number for your and our convenience. Order by number (as "5 seeds No. 535—\$.30").

535	63820 (big cream) x All Glory	559	Maurrie Trevan x Snow Cruiser
536	63820 x Maurrie Trevan	560	Mme. Curie (lt. pk.) x Snow Cruiser
537	63820 x Red Charm	561	Mohawk x Red Charm
538	63820 x Tunia's Delight (Both) (orange)	529	Mrs. E. Both x Mrs. E. Both
539	All Glory x Lady Jane	562	Mrs. E. Both x Thriller
540	Chagrin x Solid (Both) (yellow)	563	Pastel x Red Charm
541	Corona x Herbstfreude (purple)	564	Red Charm x H. R. Hancock
542	Corona x Huntress (Jack) (lavender)	565	Red Charm x Lavender Prince
543	Corona x Lavender Prince	566	Red Charm x Mohawk
544	Corona x Tuts Both	567	Red Charm x Solid (Both) (yellow)
545	Greta Garbo x Herbstfreude	490	Snow Cruiser x June Bride
546	Helen of Troy x Lady Jane	568	Snow Cruiser x Tuts Both
547	Helen of Troy x Snow Cruiser	569	Stella Antisdale x Mrs. E. Both
548	Herbstfreude x Red Charm	570	570 Stella Antisdale x Necia (Both)
549	Herbstfreude x Wanda		(shrimp)
550	Igloo x June Bride	571	Stella Antisdale x Vulcan
551	Lady Jane x 13C (intensified Spitfire)	572	Thriller x Solid (Both) (yellow)
552	Lady Jane x 13E (Spitfire type)	573	Thriller x Tunia's Mahomet
553	Lady Jane x All Glory	574	Tunia's Mahomet x Lady Jane
554	Lady Jane x Marlene Both	532	Tunia's Mahomet x Snow Cruiser
555	Lady Jane x Maurrie Trevan	575	Tunia's Mahomet x Spitfire
556	Lady Jane x Red Charm	534	Tuts Both x Snow Cruiser
557	Marlene Both x Stella Antisdale	525	Vulcan x Snow Cruiser
558	Matterhorn x Sgt. Don (Both) (ruf o. pk).	576	Wanda x Herbstfreude

OUR KEY SYSTEM A GREAT AID TO SELECTION

Varieties are grouped by color classification for your convenience of comparison and selection.

Varieties are critically described. Naturally, in a list such as this, consequential faults are few, nevertheless, attention is called to them. Show dates and references are to *first prizes* only. Room to mention but few. Symposium ratings refer only to those last published.

For sixteen years our variety descriptions have been praised generously, for the accurate visualization of the size of individual floret, the number open at one time, the total bud length of the flower spike, the prominence of markings, etc., made possible by the use of stars, daggers and other hieroglyphics.

We will tell you the size florets to expect, a * indicating large florets $4\frac{1}{2}$ to $5\frac{1}{2}$ inches diameter, ** indicating $5\frac{1}{2}$ to 6 inches and *** indicating extreme size 6 to 8 inches.

We explain the relative quantity of marking, + indicating with *obvious* markings, i.e., so evident as to arrest attention and — indicating without *obvious* marking.

We do not list varieties incapable of holding five florets open at one time. There are thousands of such varieties. We employ † to indicate many open (6-8) and †† to indicate an extreme number (9-16). If the total of open florets and buds make an unusually long spike, we indicate with a double dagger ‡ (15-18) and extreme ‡‡ (19-30).

We furnish the approximate blooming dates of varieties in this locality, checked to the best of our ability from experience of many years. Number after name indicates days from planting to blooming of large size bulb (L). Medium size (M) usually seven to ten days later. Dates not guaranteed since subject to change by excessive heat, moisture, drought, differing soil fertility and other conditions.

Abbreviations: L large bulb $1\frac{1}{4}$ in. up. M medium size bulb $\frac{3}{4}$ - $1\frac{1}{4}$ S. small bulb $\frac{3}{8}$ - $\frac{3}{4}$. Blts. bulblets, Exh., Exhibition Type. Dec., Decorative Type. Sm. Dec., Small Decorative Type. A. G. S. American Gladiolus Society. Ohio, Ohio Gladiolus Society. Mah., Mahoning Gladiolus Society. C. G. S. (Canadian). B. G. S. (British). E. Bay (California G. S.). San Leandro (The Largest flower show on western coast). A. M., Award of Merit. F. C. C., First Class Certificate. (Am), Amateur. Com., Commercial.

SIZE OF BULB TO BUY

If economy be the aim, do not rely on small bulbs to give wholly satisfactory blooms. The small bulbs will all bloom but medium bulbs almost always give far better than "medium" sized spikes of the given variety.

Our descriptions usually indicate whether or not the variety is an exceptionally fine producer of blooms from the smaller sizes.

Commercially, bulbs are graded into 6 sizes. Size 6 is under $\frac{1}{2}$ inch diameter and other sizes range up every $\frac{1}{4}$ inch, the Number 1 bulb being $1\frac{1}{2}$ inch up. Catalogs commonly offer bulbs as L (large) sizes 1 and 2) ($1\frac{1}{4}$ inch up); M (medium) (sizes 3 and 4) ($\frac{3}{4}$ to $1\frac{1}{4}$ inch); S (small) (sizes 5 and 6) ($\frac{1}{4}$ to $\frac{3}{4}$ inch) and Blts (bulblets, the little hard shelled cormels which cling at the roots of the bulb).

The size (bulk) of bulb you purchase determines the amount of food with which you are starting to produce a given spike.

TERMS OF SALE

Cash with order.

Delivery after April 15th (normal beginning of mild weather hereabouts) prepaid in U. S.

NOTE: Bulb deliveries requested and made before April 15th will go post paid or express, transportation charges Collect, at our option, governed largely by weather and package size. Express charges vary with weight of parcel and distance, of course, but we would estimate the average cost of the average parcel will be roughly around 50c. If sent Express Collect we will, of course, add stock of value to exceed the express charges.

Replacement or refund purchase price any bulb, root, plant or seed that does not prove true to name or does not arrive in condition herein represented. Bulblet and seed germination are not guaranteed.

No substitutions will be made.

Orders received until planting but subject to stock being unsold. To get proper propagation of new sorts, it does not pay us to hold for further sale bulbs and blts priced only per each beyond May 1st. Order early. Our selling season is very short.

BULBS: 6 may be ordered at 5 times the single price. 12 bulbs at 10 times single price. 25 bulbs at hundred rate if such is given, otherwise at twice the dozen rate.

BULBLETS: Any amount at the rate offered.

Please be mindful that, under present conditions, items under about 15c are filled at a loss.

Delivery prepaid to foreign countries in the Postal Union having the usual 14c per pound rate, provided war restrictions of one kind or another does not bar such delivery except that purchases at 100 rate prices should add at rate 50c per 100 for large bulbs and 20c per 100 for medium sized bulbs.

Notice to Canadian Customers

The \$5.00 cash ceiling heretofore placed upon your import privilege has been removed. Apply to the Secretary of Destructive Insect and Pest Act Advisory Board, Dept. of Agriculture, Ottawa, Ont., for permit and mailing label.

NEWCOMERS TO OUR 1946 LIST

Consult index to further descriptions and prices in regular descriptive list.

ALL GLORY ('46 N. Z. import release). A novelty gladiolus, beautifully ruffled, deep tangerine orange, spectacularly blotched. Because color does not bleach in the sun (as in Dazzler) and because propagation is good and sizeable spikes are frequently had from bulblets, we think All Glory will obtain public esteem here, as in New Zealand.

BLUE ICE ('45 Butt introduction). Here at last we appear to have a healthy growing light blue giant. A Joseph Haydn seedling. As close an approach to true light sky blue as any we have yet found. Wide open florets beautifully ruffled and creased. Makes a good quota of large bulblets which we have not grown yet. However, Mr. Butt says they germinate and grow well. A few rather good new varieties are deliberately withheld from our listing because we do not want to offer overpriced items to our customers. This one may prove its current value equal to its high price.

ESSA MARIE (Coutts. Our '46 import release). Planned and advertised for introduction in Canada in '43, Mr. Coutts' entire bulb stock was destroyed when his home burned, excepting only a test lot of 10 bulbs loaned to Mr. Lade of Hamilton for observation. This was the same fire that cut down the propagation of Coutts Orchid. With the first one of these 10 bulbs to bloom, Mr. Lade captured grand champion bloom of the Hamilton Dist. show, '44. By arrangement export to U. S. has been so far limited to us and '46 is therefore the first year it is technically available to the U. S. buying public.

Essa Marie has giant, round florets with a mild, soft, smooth deep pink, having a rosy tone with no flecking, peeling or fading. Its field habits appear beyond reproach. Being able to offer it at reasonable price we have abandoned all other deep pinks from our list.

LANCASTER ('44 Palmer introduction). We have hopes that Lancaster will not peel its beautiful, clear purple color in soggy weather. We had plenty of soggy weather in '45 but too few Lancaster bloom to be sure. Not until the fifth year of our growing did Purple Supreme show us its tendency to peel. Lancaster does not have the size nor stretch of Convoy but it holds several more open.

LEADING LADY ('42 Johnston introduction). Heretofore we felt that Leading Lady was overpriced, being a Picardy sport having Picardy's powerful propagation and the color was incorrectly advertised as white and we did not feel equal to the task of convincing the world that it was not white. Especially with Wanda, somewhat more creamy and making sturdier spikes in the field, opening as many or more available in the 10-15c range. Nor do we think it has yet reduced proportionately with crop increase so we still refrain from calling it a good investment in terms of cold cash. Nevertheless, it is reasonable to expect that it will make a wild upsurge close to the top of the coming Canadian 1946 symposium. Picardy being Canadian raised and having held 1st, 2nd or 5th place for some 10 years and Leading Lady showing no outstanding faults it is natural to conclude that Canadian symposium voting is going to cause Leading Lady to take Picardy's place in the coming symposium. We wish Leading Lady was white as first and often now widely advertised but for most practical purposes it could answer the purpose where white is wanted. The N. A. G. C. classifies it cream, series 506.

MAURRIE TREVAN (Both. Our '46 import release). This is our most sensational offering since the '43 advent of Tunia's Mahomet, Tuts Both, Marlene Both and Mrs. E. Both. Had our imports been ample we could have released it then and as promptly buyers would have willingly wiped out any propagating reserve. But with import conditions what they were we have been unable to add to our few original then seedling bulblets obtained just before the war started. Several Australian and New Zealand growers report that it far outclasses every other black red. Our 5 years experience with it bears them out. We have already seen more show caliber spikes produced directly from bulblets than from any other variety, even taking all colors into consideration.

MINSTREL ('44 Palmer introduction). Listed almost against our better judgment. But it is a giant standing almost alone in a weak color and size classification where Elizabeth the Queen has run up an impressive list of prize-winnings, partly undeserved for lack of competition. Much larger than Elizabeth the Queen, color cleaner though most of the time feathered too much to suit us. Propagation has been difficult with us but we are satisfied that Elizabeth the Queen cannot beat well grown spike of Minstrel in the shows.

SPOTLIGHT ('44 Palmer introduction). Not to be confused with "Stoplight". Medium-deep golden yellow of high color quality, with small feathered scarlet blotch. Not as large as Sir Galahad but better color, longer head, more buds and more open. Very attractive and everyone seems to like it.

WHITE—00 Series

IGLOO (Butt) 85**—†† Smooth petalled, purest white, faint cream marking in throat. Appears to avoid color flecking in bad weather. Straight, tall, hard spikes with about 2 ft. flowerheads, 6 or more open, 5 inch florets in good placement. Appears to be the best white from Canada. Each L \$1.50 M \$1.00 S .60.

MYRNA (Pruitt) 76 **—††† Commercial. Ivory white. Ruffled. About half way between Maid of Orleans and Mary Elizabeth, its parents, but larger florets and 7-10 open. We had one spike open 11 in the field. Positively wonderful cut flower habits. British A. M., '39. Getting its share of grand championships. Due to diffusion of diseased stocks bought by many eastern growers to increase their stocks, considerable poor stock is currently offered by many, much to the damage of the reputation of this grand glad. Much of the good stock and most of the grand champions can be traced back to our stock. Blooms at its best when planted early.
L .12 Blts (100, .60).

SNOW CRUISER (Evans) 78 *** — ††† Exh. Com. An immense, super giant, with round smooth florets an inch or more larger than those of Crystal. Pure white without any marking, with a slight blending towards pale cream deep in the throat. A spike entered in the seedling section, Ohio, '41, notwithstanding only 4½ florets had opened at time of judging, nevertheless was such a giant in bulk of open bloom, such immaculate, pure color, that it won (1) best white exh, seedling, (2) section champ. exh. seedling. (3) N. E. G. S. Rosette for best exh. sdlg., (4) Champion Seedling all types (5) Evans Champion Sdlg. Trophy, (6) Grand Champion of the Show, (7) O. S. G. S. Grand Champion Trophy. Snow Cruiser was chosen from among the finest group of section champions we have ever seen collected for selection of a grand champion. Most had many more open, one spike of Grand Opera had 7 open, all over 7 inches dia., but the four giant florets of Snow Cruiser were not to be denied.

We now have concrete evidence, many times confirmed, that Snow Cruiser imparts giant size to its seed progeny and the resultant color when used as a pollen parent strongly favors that of the seed parent. The string of giant reds secured by Wells Knierim from Red Charm x Snow Cruiser, one of them Grand Champion bloom at the Chagrin Falls (Ohio) show, '44 from a 5/8 inch bulb was the best of many evidences. If you are looking for an enlarged Margaret Fulton or Golden Goddess or Pelegrina or such, possibly this points the way.



Showing growth of our imported Bubbles, 1945.



One of hundreds of blooms direct from bulblet field above. From a large bulb, this pure white variety (for release 1947) makes petals 4 inches wide, florets 10 inches in diameter.

Considering its immense size, the attachment of all florets with occasional exception of bottom floret only, is all that could be desired.

One of the firsts received in '45 was a tremendous spike with 11 open florets, at the Chagrin Falls, Ohio show. That's a bit better than the $4\frac{1}{2}$ open which made it an Ohio grand champion.

Each L \$7.50 M \$5.00 S \$2.00 Blts .50.

"Snow Cruiser—what a glad. I had only bulblets but one bloomed like a million dollars, the spike had 13 buds, held 5 open at a time, the first bloom was $5\frac{3}{4}$ inches dia. and the cleanest and finest white I ever saw in any glad. It was really outstanding and I had a lot of comments on it." 9-12-'43. J. L. H., York, Pa.

"A bulblet of Snow Cruiser gave me the largest growth I ever saw from a bulblet—nearly 5 feet tall with 14 buds (taller than the bloom from the 2 bulbs I had). It sure is a giant and beautiful." 12-1-44 G. T. B., Shelbyville, Ill.

SNOW PRINCESS (Pfitzer) 80 * — †† Dec. Com. Milky White, shading to light cream in throat. Makes a tall, straight spike with six or more large blooms of heavy texture open. A healthy, vigorous grower and a good propagator. It is replacing Maid of Orleans in our list. L .08. (100, \$6.00) Blts (100, .60).

CREAM—06 Series

LADY JANE (Lake) 85 * — ††† Exh. Com. Clear, Glistening cream, deeper in throat. Will easily open 7-8 round, wide open, slightly ruffled and waved blooms. Texture and placement are perfect. This is considered the world's 4th best glad (ahead of Picardy), by C. G. S. symposium standards and worthy of the rating. Commercial qualities are perfect. Very outstanding. L .15 M .10 Blts (100, \$1.00).

LEADING LADY (Johnson) 82 ** †† Exh. Com. This light cream sport of Picardy has been in the limelight ever since introduced. Probably the best feature, and one that will result in its being the leading commercial while it persists, is that so far it has shown none of the diseases of its parent. Spike, flower and habits identical with Picardy, an occasional Picardy pink streak in petals being best proof it is a real sport. However, somehow, inverted type florets (single lip, top petal to rear) occasionally are to be found. That's an advantage over Picardy. Color is light cream with lemon cream throat, yet for most practical purposes where white is wanted, it is accepted when seen. You can grow show spikes from medium sizes and commercial spikes from No. 5. See winner and grand champion tabulations. Each L .60 M .40 S .25 Blts (100, \$5.00).



SNOW CRUISER

WANDA (Snyder) 83 ** — ††† Dec. Com. Long, straight spikes of very light cream, approaching white. Has the soft, pastel finish of color one would expect from a Picardy sport. We have spent years studying the Picardy sports and growing many of them. This is our choice for offer to you and the price makes it one of the outstanding bargains in the entire list. L .12 M .08 Blts (100, .35.)

YELLOW—10 Series

CHAGRIN (Evans) 82 ***+†† 1945 introduction. Soft, clear, lively primrose yellow with red markings in throat. The heavy creases and tapering points of the petals add greatly to its beauty. Spikes are what we would call on the short side but F. E. Hubler, former supervisor of judges, Amer. Glad. Soc., who has grown a few for appraisal for several years, says it is tall enough.

For us it was Sec. and Champion Seedling, W. Va., '41 and 1st 3 spike Cleveland (Ohio) '43. At this same show J. S. Colbert,

prominent Ohio amateur, also having a few for testing won Sec. and Seedling Champion. A week before he entered a spike at Chagrin Falls (Ohio) winning as Reserve Champion of the show. We won with it in the open giant yellow class Chagrin Falls, '44, over good spikes of Sir Galahad.

Each L \$2.00 M \$1.25 S .60 Blts .15.

SIR GALAHAD (Salbach) 95 ** + †† Exh. Patented. Soft, rich, clear creamy yellow with a diamond shaped blotch of rich crimson, in beautiful contrast. Words fail us to describe its unusual beauty. Six 6 inch florets wide open, a bit recurved, 18 bud. Tall, strong spikes with long flowerhead. Stocks very limited. Doz. limit.

Large, per each .35; 12, \$3.50.

"Sir Galahad is really a beauty in a class all its own." 12-3-41. B. F. P., Roanoke, Va.

SPOTLIGHT (Palmer) 75 * + ††. Do not confuse with another variety, red, called STOPLIGHT. Clear, medium-deep golden yellow with a small feathered blotch of scarlet. Large blooms, about 7-8 open and about 18 total buds. Award of Merit by Mass. Hort. Soc. The color is extremely attractive and the plant is strong and vigorous, producing plenty of large bulblets that grow unusually well and often bloom.

Given an "A" rating in the '45 C. G. S. New Variety symposium and also at the Ont. Agric. College Test Garden.

Each M \$1.25 S .75 Blts .15.

BUFF—16 Series

DONNA (Pruitt) 95—†† Dec. Com. Golden buff, well ruffled. Color much as Wasaga but much stretchier spikes, taller, with more open. This is one of the very best glads to be had at any price. We fear you are overlooking it because lack of * insignia places it in the 300 size series. Try it. The commercial boys who have it are making no effort to sell it.

L .20 M .15 S .10 Blts (100, \$1.00.)

ORANGE—22 Series

(Incl. yellow orange and red orange)

ACCA LAURENTIA (Holland) 70 *—†† Dec. Clean, soft orange, inconspicuously marked deeper in throat. Color does not fleck or burn. Slightly hooded. For 3 years we have studied this for flaws from point of view of cut flower use without finding any. Stocks limited and not more than half will be allowed to be sold.

L .30 M .20 S .15 Blts (100, \$2.00).

ALL GLORY (N. Z.) 77 * + ††. A novelty gladiolus. Deep, tangerine orange spectacularly blotched purple overlaid cerise with a single rib down center of lower petals. Beautifully ruffled. Color is fast, propagation is easy and good and sizeable spikes are frequently had from bulblets. Champion seedling N. Z. G. S., '42. "Best Novelty" N. Z. G. S., '44.

Each L \$4.00 M \$3.00 S \$2.00 Blts .50.

BOBBY DAZZLER (Both) 80 ** + ††† Surely the best commercial orange we know. Brilliantly clear and velvety red orange with deeper throat blotch. Beautifully ruffled. But for Jeanie and Coutts' Orchid this variety would be just about the sole contender for the most beautiful glad introduced in the last 5 years. On account of the greater intensity of color in this one probably it will receive the most acclaim. Florets have substance, are 5½–6½ inches dia., 5-7 open and are not crowded on the stem.

L .60 M .40 S .25 Blts .06.

"Bobby Dazzler, from bulblets, was wonderful! A living spire of red orange flame." M. A. E., Appleton, Minn.

DAZZLER (Both) 80 ** + ††† Exh. only. The greatest dazzler for color we have seen. We never thought we could ever see a glad of scarlet orange that could match Pfitzer's Triumph. But this is vivid dazzling scarlet orange with darker blotch. Slightly ruffled. 5½ inch florets, 9-10 open, 22 and more buds. Full double row Exh. type placement. Flower fades in the sun so it is not a commercial type. But what a "humdinger" for the show bench or home use if blooms are opened indoors! A spike selected from our commercial display at Ohio, '38, not entered in competition, was unanimously chosen by the judges as Grand Champion Bloom of the Show, winning the American Home Achievement Medal and the N. E. G. S. Purple Rosette.

L .60 M .40 S .20 Blts .05.

TUTS BOTH (Both) 80 ** + ††† Exh. Com.

Deep pastel orange. Between o3 and o4 on Fischer Color Chart. Not enough red to be called red orange. Has a small blue tongue, a color rarely found in glads in combination with orange. Huge, wide open florets held rigidly on tall and strong spikes which are truly magnificent Heavy propagator. Our 1st in R. I. orange class, Ohio, '42. Won Award of Merit and was judged Color Champion, Cleveland (Ohio) also R. I. sec. champion, Chagrin Falls, O., '44. In a class by itself. Reserve Champion, Chagrin Falls, Ohio, '45.

Each L \$2.00 M \$1.25 S .75 Blts .20 (7 for \$1.00).

"I think the champion spike in my garden-about 50 varieties of glads was an H. B. Pitt, grown from one of your bulbs." Rev. E. W. R., Bridgeton, Me.

Bulbs priced per each. 12 sold at 10 rate. 6 at 5 rate. 25 at 100 rate.

Blts any amount at rate offered. Delivered Prepaid in U. S.

LIGHT SALMON—30 Series

H. B. PITT (E. Both) 80 **—†††† Exh. Com. Smooth, light orange pink, cream throat. Powerful growth, stiff stem. Tall, full exhibition spikes, regularly well placed in double row formation. Heavy propagator. A sister seedling to Harmau. We still prefer this variety to Picardy. Blooms from bulblets and makes grand looking bulbs. Carries a rating of A (outstanding) in C. G. S. Symposium. L .30 M .20 S .10 Blts (100, \$2.00).

"H. B. Pitt bloomed this morning, in 81 days—a perfect flower and gloriously beautiful, first flower as wide as this post card. One of the "extras" you sent last spring. Many thanks." 7-27-'43. Rev. E. B. R., Mountain, View, N. J.

"One of the surprises of the season were the splendid spikes given by H. B. Pitt". 12-1-44 G. E. M., Lebanon, Ore.

"I was chairman of the C. G. S. Symposium and the No. 1 glad was Red Charm, 2 Myrna, 3 Greta Garbo, 4 Lady Jane and 5 Picardy. I grew every one of these in '43 but H. B. Pitt was by far the best glad I bloomed in '43." 1-31-44 D. McL., Winnipeg, Man.

JEANIE (Pruitt) 85 *—††† Dec. Com. What a beauty! Bright, glistening light salmon, clean and clear of all flecking, with white, raised midribs and blending into light cream throat. Color is unbelievably rich. Unless you see it we doubt we can do it justice with mere words. It's cheap enough for you to find out for yourself. We could fill so many pages with the commendation it received that we would not know which to select. 5 inch florets, 5-6 open, tall, strong, wiry stem, good propagator. If we have not convinced you that we are convinced of the outstanding quality of Jeanie, both for show bench and for cut flower, then just risk a dime or 15 cents for a bulb and find out first hand. Award of Merit, Akron (Ohio) '44. L .15 M .10.

MARLENE BOTH (Both) 76 ** — ††† Com. A glorious, delicate, light salmon pink with perfectly blended deep, creamy buff throat. A beautiful, ruffled giant, with outstanding decorative and commercial qualities. Long stretchy flowerheads. One of the very first to bloom. Started out with 4 firsts in '44, one of them ours. Best Recent Introduction and "Most Beautiful Bloom in Show", W. Va., '45. Given time, this glad is "going places." Each L \$2.00 M \$1.50 S \$1.00 Blts .15. (10 for \$1.00).

MRS. E. BOTH (Both) 92 *** + †††† Exh. The most sensational super exhibition glad ever sent out from Australia, where it received the first First Class Certificate ever issued by the S. A. G. S., '40, with a score of 95, the highest score ever awarded any glad in Australia. A perfect color blend of liquid clear, light orange pink with harmonizing, clear, deep cream

throat. Florets round petaled, wide open, up to 7½ inches dia., rigidly held in a 34-42 inch flowerhead. 9-12 open, 24-26 buds, making the largest bulk of bloom yet produced on one spike. Only Tunia's Marvel and Tunia's Mahomet have thus far produced spikes within comparable range. Stock exceedingly scarce partly due to our having growing accidents in the field two years in succession. In '44 our bulblets were planted in a drainage ditch 8 inches deep and that was the last we saw of them. Propagation medium good. Grand Champion, So. Austr., '40. See color illustration on front cover and further illustration on back cover. Though price is high, it is only one third of the price at which we last offered it.

Each L \$10.00 M \$8.00 S \$6.00 Blts .75. Blts limited to 6 except units of 10 more per bulb purchased.

DEEP SALMON—32 Series

HARMAU (Both) 72 ** + ††† Exh. Com. A highly desirable new color, difficult to describe or classify. An orange red with distinctly rosy overtone, throat deeper. Enough ruffling to enhance the beauty of the well placed, giant, wide open florets. Five times winner of the award "Champion Commercial Type Variety" in Australia. This alone should apprise you of its worth. However, we give further detail. Foliage and stem deep green. Tall, strong and wiry stem holding firmly 6-9 giant florets open on 18-20 bud, stretchy type spike. A massed display of this variety is an unforgettable sight. In fact, the "Champion Bowl" arrangement, S. A. G. S., '40 had an overall width of full 9 feet. Tremendous propagator. Very early. Blooms freely from bulblets and makes massive spikes from small bulbs. First Class Certif., S. A. G. S., '41. At its present low price it is very probably the best commercial investment to be had today, all colors considered. L .20 M .15 S .10 Blts (100, \$1.50).

SPITFIRE (Evans) 80 * + †††† This grand glad starts out as a named variety with plenty of competitive show experience. Color is clear, iridescent, rosy toned salmon, white throat marked with several small cherry lines. 5 inch florets, wide open, slightly ruffled. Opens 8-10 easily. Powerful plant, strong stem, no crooking, bloom very long lasting. Propagation medium, otherwise wonderful cut flower qualities. In '38 it won as 3 spike Exh. seedling, then Champion Seedling and Ind. Soc. Silver Medal at Ind. In '39 at Ohio it received one of the very few Awards of Merit it has yet given. In '41 it won for us as follows: a first at Wellsville, the American Home Achievement Medal for most meritorious undisseminated gladiolus



SPITFIRE

"Spitfire is a pink of unusual shade with great carrying power and makes fine spikes." G. E. M., Lebanon, Ore.

"Spitfire has 'catchy color' and makes stretchy, straight, well placed spikes." Group Test Report, Canada.

at W. Va. and repeated for similar medal at the Mich. state show. Thus, Spitfire followed in the footsteps of its "brother" seedling Hurricane, which won the award at Mich. the year before. Myrna alone won more special awards in the '42 shows. At the 2nd Ohio (R. I. and Sdlg) show, Cleveland, '42, Spitfire won a 1st in color class, longest flowerhead in show, Section Champion, Grand Champion of the show and reaffirmation of Award of Merit, at 88 points, a new high score for Ohio. In '44 in the shows reported it won 4 firsts, one section champion, one top scoring R. I., Grand Champion of the Show again at the Cleveland (Ohio) together with still another reaffirmation of Award of Merit (the first time we ever heard of that happening), these spikes scoring $84\frac{1}{2}$. 1945 piled new honors on Spitfire. Out of 8 first prize winning entries just in the 13 shows reported, 7 went on to obtain further special awards. No other glad exceeded 7 special awards. It was the best 3 spike R. I. at the 2nd Ohio where it it scored 87 and obtained still another Award of Merit. At the 1st Ohio show, at Cleveland it was best R. I. and Grand Champion Bloom of the Show and here it also obtained still another Award of Merit, this one granted by the Garden Center of Greater Cleveland. This makes us a bit dizzy and if we are still able to count that is 5 separate and distinct Awards of Merit and we never heard of anything like that before. Australian catalogs call it "America's Perfect Exhibition Glad".

Sales last year almost wiped out our stocks. This year no L and must reserve the few S and Blts for propagation. Each M \$1.00.

SCARLET—36 Series

ALGONQUIN (Palmer) 79 * — ††† Exh. Com. Brilliant, light scarlet with some markings. Flowerheads up to 30 inches, 7-9 open usually semi-stepladder fashion. This variety is standing the test of time, increasing its followers, both commercial and show exhibitor. Made one of the best records in the prize-winning tabulation (which see) and was judged "Most Beautiful Bloom in Show" Wis., '45. L .12 M .08.

DESTINY (Butt) 83 **—†† Very tall, strong spikes of bright "house afire" orange scarlet with white arrows in throat. Florets are extra large and smooth. An outstanding performer in the garden. Each L \$1.00 M .60 S .40 Blts .06.

PERKY (Hubler) 85 — †† Sm. Dec. This little glad is too good to pass up. Color is clean scarlet. Holds 5-8 open florets which are winged and average 2½-3 inches dia. Makes large bulblets which bloom without much coddling. Foliage is in keeping with the florets, as is the stem which is slender and wiry. Received the only Award of Merit given by the Ohio society in '41. L .30 M .20 S .10 Blts .03.

ST. EDWARD (Both) 72 * —†††† Exh. Com. This outstanding Exh. and Commercial glad is an orange scarlet with some creamy white in the throat. Has excellent substance, wide open, perfectly formed florets which are slightly ruffled and held rigidly on a very tall, wiry stem. Quite an easy matter to pick a perfect 100% Exh. spike with eight or more 5 inch florets open in double row formation. 22 buds. Medium propagator. While a seedling it was included in the "best 6 spikes" at S.A.G.S., and was Grand Champion at Kensington, '37. Champion Vase (20 spikes with more than 200 open florets) S. A. G. S., '39. Our 1st, S. E. Mich. '40. Section (amateur) champion, S. A. G. S., '40 and F. C. C. same soc., '41. L .75 M .50 S .30 Blts .06.

TUNIA'S MARVEL (Both) 78 ***+†††† Exh. Somewhat lighter than Tunia's Triumph and even more metallic. Has a prominent light blue violet stripe on lip petal. Just as large (7 inches) but easily 9-10 open on 20 bud spikes which can be frequently cut with 2 ft. stems and 3 ft. flowerheads. Between OR3 and OR4 on Fischer Color Chart, scarlet but very metallic. Champion Seedling and Reserve Champion (runner up to grand champion) S. A. G. S., '40. Two firsts, Ohio, '43. We are getting numerous reports of champion caliber bloom long before the earliest show dates, so plant late for show purposes. Each L \$2.00 M \$1.25 S .75 Blts .20 (7 for \$1.00).

LIGHT PINK—40 Series

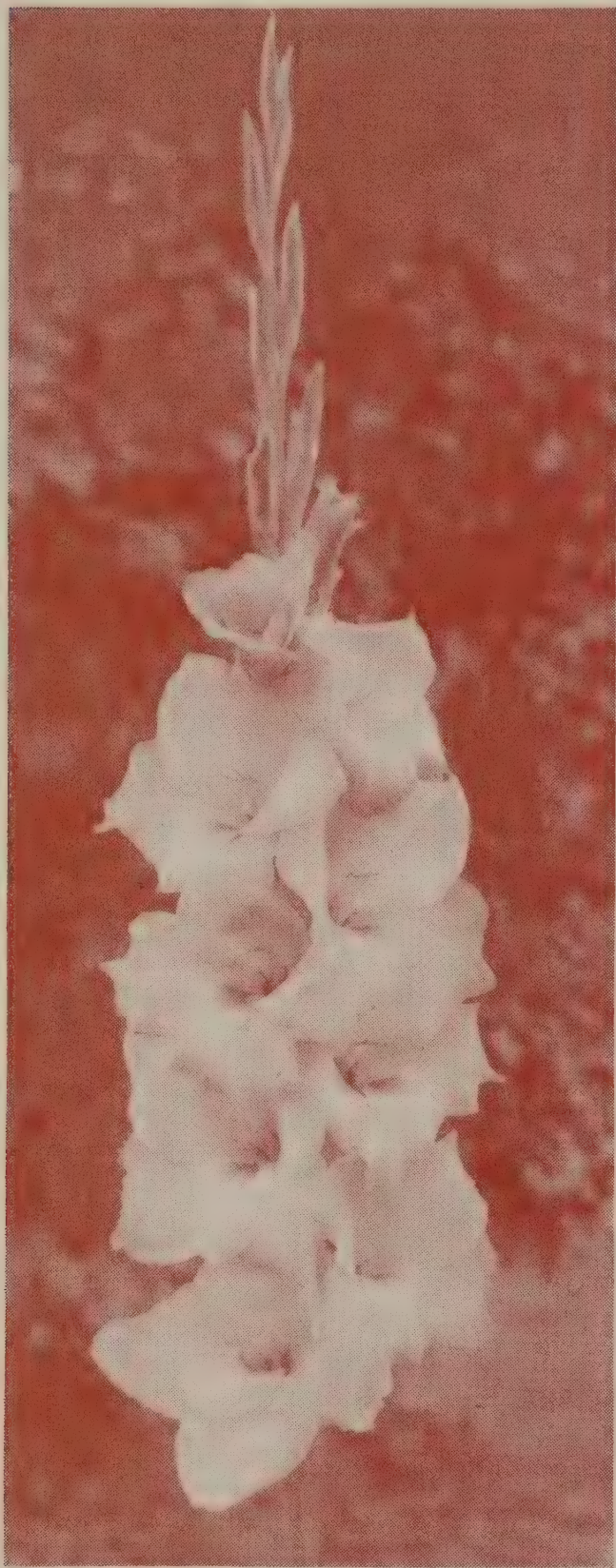
ALGOMA (Butt) 84 **+††† A buff toned medium-light pink with a red flush which deepens as the flower ages and a very spectacular deep red throat. The color is certainly "different" and all the other details could be aptly described "perfect". Plants are tall and strong, always straight. Opens 8 5 inch florets with ease in open field always well placed. Each L \$2.50 M \$1.50 S \$1.00 Blts .15.

"This is the first time in my 15 years of commercial flower growing that I have ordered bulbs or seeds from a distributor and then sat down and thanked him for the stock sent. But this is the first time in 15 years that I have received four times the original order." 4-4-40. H. E. B., Elsmere, Del.

BIG TOP (Rich) 72 ***—††† Exh. Color a medium depth of pink with carmine feather in somewhat lighter throat. Sometimes flecked at edges. Petals creased at centers. Immense, round florets reaching 8 inches dia. A giant in growth of wide foliage and tall stalk as well. Fairly good texture. Generally straight and fair placement. Healthy, prolific and excellent bulblet germination. Our tallest variety in '41. 20-22 buds, up to 7 open on 26-32 inch flowerheads. It outperformed our Miss New Zealand in height, number open, size of floret and ability to support itself. Has received its 2nd year Commendation award, also largest floret (7¼ inches), both E. S. G. S., '41. Six special awards at '43 shows. Seven specials at shows reported '44 including a spike at Tri State (Wellsville, Ohio) 60 inches long, 41 of it flowerhead, eight open florets 6¾ inches dia. one above the other, easily winning Grand Champion Bloom of the Show. This by L. H. Esterline, for many years pres. of the Ohio State Soc. We saw about 10 steel rules measure this spike and a lot of note taking. L .25 M .15 S .10 Blts (100, \$1.50).

CORONA (Palmer) 80 **—†† Dec. Com. Very light pink, approaching creamy white, throat somewhat deeper, rose picotee edge that varies in intensity under different growing conditions and seems destined to climb into the "best 10" in the C. G. S. symposium as it becomes better known. In open field very much on dry side all season ('44), from number 4 bulbs we had at least 200 massive spikes that carried florets 5½ inches or better. Mr. Fortnam's grand champion Corona at Akron (Ohio) '44 with florets well over 6 inches and looking bigger because so full, round and wide open. Fast propagator. Positively outstanding. See winner tabulation. L .15 M .10 Blts (100, .40.)

GRETA GARBO (Pfitzer) 86 *—†††† Exh. Com. Surely this gladiolus rates inside the best ten extant. But a matter of time and it will be near the top of all symposiums. The color is soft, a very light rose pink, so light we classify it light pink. Cream on lip petal. Buds are salmon rose. Opens 6-9 finely placed, well expanded, perfectly formed flowers on a tall, slender but strong stem. Healthy grower, rapid propagator, ideal cut flower habits. Both A.M. and F.C.C. at Amsterdam, Haarlem and B. G. S., a stunning record. Corroborating our above description, carried over from 1940 when we released the variety, note that Greta Garbo rates world's third best glad in last C. G. S. Symposium. Grand Champion, Wellsville, (Ohio), '43, repeating in Winnipeg, '44. L .15 M .10 Blts (100, .50).



MYSTERY

"In my opinion you have an excellent gladiolus in Stella Antisdale. The color is beautiful, placement excellent, a real exh. glad and a wonderfully fine cut flower with keeping qualities. I am more than pleased with my investment. My hat's off to you and Stella Antisdale. You've really got something there." M. J. E., Grand Haven, Mich.

"Won two firsts with Stella Antisdale. With two bulbs. This is everything you say about it. Extravagantly admired and one of the best things in the show. 12-3-41. B. F. P., Roanoke, Va.

"Stella Antisdale has a beautiful, delicate coloring and yielded a fine crop of bulblets." 2-7-'42, W. H., Rockwood, Ont.

"Stella Antisdale bulblets produced nearly 100 percent number 1 or 2 bulbs." 11-13-'42. W. H., Winnipeg, Man.

HIGH COMMAND (Barrett) 97 ***—††††
Color is shell pink. 25 buds, up to 10 open six inch florets slightly ruffled and wide open. Strong, tall plants with flowerheads 2½ ft long.
Each L .50 M .35.

MYSTERY (Stinson) 83 ***+†††† Giant, beautiful, soft pure pink, bright rose mark in throat. One of the few glads that increase its color value under artificial light. 6-7 inch florets, a bit waved and frilled, 7 to 9 open, well placed on strong, tall spikes with flowerheads about 2½ ft. Good blooms from small bulbs and good propagator. It won many awards in several other shows not listed in our tabulation, including the Amer. Home Medal, Quebec, '43 (then a seedling), section champion and Grand Champion at the Canadian national, Quebec, '44 also Grand Champion Verdun (P. Q.) show, '44. At the Canadian national, again at Quebec, '45, Mystery was champion in both Novice and Open sections. Firebrand was champion of the Amateur section. The show report sent to me failed to state which became Grand Champion. We think Mystery and Leading Lady are the two glads soon to push Red Charm around in scramble for first place so we will have to guess at this time that Mystery was the Grand Champion. Incidentally, good propagation has sharply reduced our price. See illustration.
Each L \$1.25 M .75 S .50 Blts .08.

STAR GAZER (Evans) 82 * — ††† Dec. Com. Semi-upright type. A seedling of Magna Blanca with Merry Widow the pollen parent. Clear, pale, very light pink, practically speaking blush white. Unmarked except for one very narrow line of cherry on lip petals. Beautiful florets, strongly recurved, are firmly placed in a semi-upright position, making a long, step-ladder type flowerhead on a stiff, wiry stem. Bloom is very lasting, opens well to the tip and appears to have satisfactory cut flower qualities in every respect.
Each L \$1.50 M \$1.00 Blts .15.

"The best glad in our field last year (and we had 436 named varieties) was Stella Antisdale—so I want to buy a quart of bulblets if I can get them without going busted." W. L. L. Jewett, Ohio.

"I must congratulate you on your Stella Antisdale. You have an outstanding glad and with me was the earliest of all the new varieties on trial. This will be of special value as a florist variety due to its earliness and very desirable color." E. C. S., Sterling, Ill.

"You are to be congratulated for giving Stella Antisdale to the flower world. Its beauty seems out of this world. Wonderful blooms from medium bulbs." R. J. L., Clearfield, Pa.

"All did just what you claimed they would do. Stella Antisdale, I believe, was the most beautiful and medium bulbs gave me 18 bud spikes which held ten 6 inch florets open. All my friends marvelled as well. And Snow Cruiser, what a beauty. I had only bulblets but 3 of 9 bloomed and all three held six 6 inch florets on 10 bud spikes." B. K. Freewater, Ore.

STELLA ANTISDALE (Evans) 80 ***—††
 ††Exh. Com. Smooth, soft light pink, a bit lighter and creamy in throat. Color has what might be termed a suede finish. Big round florets, mostly the much desired inverted type (single lip petal, top petal to rear), 6-7 in. dia., 7-9 open easily in the field, 18-20 buds. Tall spike, 55 inches high, strong, wiry stem, all straight for 6 years. Full exhibition type placement in double row formation from M as well as L bulbs. Flowerhead 24-28 inches. Good propagator. Was best single spike exh. seedling and won Bronze medal at Ind.. '38. At the Ohio show, '39, a 3 spike entry of this variety (then seedling No. 7356) broke all known records for prize winnings on a single entry by winning

- (1) First as best pink exh. seedling.
- (2) Section champion (exh. sdlg. color classes).
- (3) Champion Seedling (all types).
- (4) N. E. G. S. Special Seedling Blue Ribbon.
- (5) American Home Achievement Medal.
- (6) Stella Antisdale Sterling Silver Sdlg. Trophy.
- (7) O.S.G.S. Award of Merit (86 points).
- (8) Grand Champion Bloom of the Show.
- (9) N.E.G.S. Grand Champion Purple Rosette.

With 50 or more spikes of Peggy Lou of grand champion caliber and a stunning spike of King of Hearts present to give battle, Stella Antisdale polled 7 of the 10 votes of the judges. Its parents, Albatros x Picardy. With excellent color, giant florets, true exhibition form, straight spikes and good cut flower habits, we expect all will like it. See illustration.

Our 1st, 3 spike light pink, beating our own very fine spikes of Rosa van Lima, Mich. and our 1st Recent Introduction, beating our own extra fine spikes of Grand Opera and Queen Marilynn, Mich., '40. Our firsts W. Va., Mah., Mich. and Ohio and our customers have started to win with it likewise, Mr. Parrott winning two firsts at SW Va. and Mr. Hopkins winning at Midwest over a good spike of Ethel Cave Cole, all '41. Last year we received dozens of letters of commendation of Stella from cut flower growers in practically every part of the country and some from Canada. It has now proven itself in hot climates and will soon be grown by the million.

Has an "A" rating in the last C. G. S. Symposium and given the same rating in '45 by the Ont. Agric. College Test Garden. We are sorry to have disappointed so many buyers last year. Stocks we thought were doubly ample turned out to be not half enough. We fear it could easily happen again.

L .20 M .15 S .10 Blts (100, \$1.00.



STELLA ANTISDALE

"I think Stella Antisdale is one of the finest glads that grow. I grew the best glads last year I ever had but none were finer than Stella." 2-2-'43. C. A. E., Tremonton, Utah.

"Send your wholesale list and catalog right away. Want to get some Stella Antisdale—the bulbs you sent me were stand-outs. Surpassed any pink I had and opened up wonderfully in water." 1-2-'44. P.H., San Leandro, Calif.

"Spring of '41 we ordered five No. 5 bulbs of Stella Antisdale from your wholesale list. With your customary generosity you added one No. 3 bulb and 10 bulblets. We harvested giant blooms, 15 fine bulbs and lots of bulblets. All were planted last spring and produced 1500 bulbs of all sizes and we think about 15,000 bulblets. Perhaps you do much better than this but it looks good to us." 2-1-'43. G. A. E., Vernon, N. Y.

"Medium bulbs of Stella Antisdale averaged 250 bulblets each. I grew the finest glads last year I ever had but none were finer than these Stella Antisdales." C. E. A., Tremonton, Utah.

"Of the 9000 blooms I raised I must say that I think Stella Antisdale made the most perfect spikes." A. E. C., Sr., Russell, Mass.

"Upon seeing some of your gorgeous glads from the bulbs bought from you, a friend asked to borrow our catalog. Why, we'd as soon part with the kitchen sink. We just can't get along without that catalog. Please send one, etc." Mrs. A. S. J., Jewell, Iowa.

**FIREBRAND**

"While in Customs getting the lot of bulbs from you I met our Canadian Inspector and he told me that the lot I was in for (your shipment) was as fine a lot as he had ever examined and every corm a perfect one in being absolutely free from defect, thrips or disease of any kind. That was getting real value for my money, particularly in view of the fact that your overcount and extras more than made up for the exchange, duty and express incurred." 5-26-40. J. W. McL., Ottawa, Ont.

"I have six seedlings from your 490 Snow Cruiser x June Bride Cross which bloomed last year, all of them looking just like the illustration in your catalog." J. M. R., Jasper, Tex.

"Maurrie Trevan makes the best dark red spikes we have seen over here, carrying plenty of 'top' of unopened buds, the lack of which is the fault of Black Opal and Black Magic. Stella Antisdale goes well, producing splendid spikes of fine color. Your illustration looks silly alongside the spikes we get." C. L. P., Bassendean, West Australia.

DEEP PINK—42 Series

ESSA MARIE (Coutts) 83 *** — ††† Exh. and Com. Healthy, flat faced, mild soft pink that never flecks, fades or crooks. Eight to nine 6 inch wide petalled florets open on a strong spike of 18 buds. Fairly tall, well proportioned and seldom does bulb split or plant throw a side shoot. Facing, spacing, substance and attachment are nothing short of extraordinary. Continuous hot, cold or wet weather seem to have no effect on it. Opens perfectly to the last bud when cut with buds merely showing color. Grand Champion at Hamilton Dist., '44. We think so well of this variety and are able to introduce it at so reasonable a price that we are deliberately reducing our offerings in the very popular deep pink class to this one flower. Each L .50 M .35 S .25 Blts .05.

LIGHT RED—50 Series

THRILLER (Evans) 90 * + ††† Exh. Color is red with medium sized blotch of clean, creamy yellow. On Fischer Color Chart the color is intermediate but closer to R4 than to OR3. Perhaps it is too tall for a commercial but another year of growing may supply that answer. Makes very long, decorative flowerheads, 8 or more open. Exhibited at Mich. State Society show, '41, it was best exh. seedling, Champion seedling and Grand Champion Bloom of the show, winning the President's Cup and rating 85½ points for top score in the show and receiving the society's Certif. of Commendation. Each L \$1.50 M \$1.00 S .60 Blts .10.

DEEP RED—52 Series

ARMADA (Pfitzer) 83 * + †††† Exh. Com. Velvet, vivid cherry red with large, brownish scarlet blotch. Very tall, heavy plant and immense flowerheads with 7-8 open in the field. M .20 S .12 Blts (100, \$1.50).

FIREBRAND (Butt) 85 *—†††† Slightly ruffled, deep signal red, slightly deeper in throat with white lines on lower petals. Spikes are tall and straight. 8 or more open. Unopened buds are of unique form resembling roses and the florets lie tight and flat to the stem evidencing that it will become a very valuable commercial bloom for shipping.

We had tall, strong spikes with 13 open in the field from number 4 medium bulbs. One of these was section champion for us at the Cleveland show (Ohio State Soc.), '44. Too new and relatively high priced perhaps to shove its way up into the best 10 in the coming 1946 Canadian Symposium. After getting a good color proof for our front cover last year our printer

could not obtain that ink. Now you had better buy a bulb and find out for yourself what an outstanding top-notch this is. Each **L \$2.50 M \$1.50 S \$1.00 Blts .16.**

RED CHARM (Butt) 85 **—††† Exh. Com. Clear color without flecking, about identical with that of Com. Koehl, but glistening. 17-18 buds, 8-9 open, round 5½ inch florets, 55 inches tall. Makes healthy bulbs and plants, strong and straight wiry stems. Good blooms from smaller sizes. In fact, a grand self color with fine cut flower habits. If you have watched our predictions for this variety you need not be too surprised to learn now that it is on top of the world. Tops the Canadian Symposium, as you learned ahead on page 6.

Of course, we rate it the best red cut flower variety obtainable at moderate prices. If there is a better one at any price, likely it is Firebrand.

L .20 M .15 S .08 Blts (100, \$1.50).

RODNEY (Coates) 92 ***+†††† Exh. and Com. Another spectacular glad in the mammoth class. Full, double row exh. spikes, 7 inch florets, 8 open (have seen 10). Beautiful dark glistening scarlet, with spectacular flaked, whitish blotch. Vigorous grower and good bulblet producer. Stocks very limited.

L \$1.00 M .75 S .50 Blts .08.

BLACK RED—54 Series

BLACK OPAL 92 *—†††† Exh. Deep maroon, somewhat marbled. Makes tall, symmetrical exhibition spikes, 10 open, 22 buds. Good bloomer from the smaller sizes. Tops its color section in both C. G. S. and N. E. G. S. symposiums. **L .12.**

MAURRIE TREVAN (Both) 80 *—††††. Heralded in language that cannot be mistaken by growers in New Zealand and Australia as the outstanding black red to date. The florets are large size, well rounded and form a perfect outline. One of the darkest, if not the darkest, red in commerce. The color is clean and velvety. Makes very tall, powerful plants even from the smallest bulbs and we have already seen more show caliber spikes of Maurrie Trevan produced directly from bulblets than from any other variety of any color. The bulblets are plentiful, large and germinate easily. Outstanding is a very mild description.

In '45 at Chagrin Falls, Ohio, a bulblet grown spike won out over 8 other good entries. At the big Ohio Show, Cleveland, '45 an entry with two giant spikes grown from No. 6 bulbs won in a well filled class (R. I. section allowing 1 or 2 or 3 spikes under the new Ohio system). These entries competing in the giant 500 series.

Each **L \$6.00 M \$5.00 S \$4.00 Blts .60.**

Blts. limited to 10. Units 10 more per bulb purchased.

MOHAWK (Stevens) 85 *—††† Exh. Com. Deep maroon, opening up to ten 5 inch well placed blooms on tall, straight spikes. The glaring faults of Rewi Fallu are not to be found in this variety.

Given a little more time Mohawk will also push aside Black Opal.

L .20 M .15 Blts (100, \$1.50).

LIGHT ROSE—60 Series

COUTTS' ORCHID (Coutts) 84 **—††† Exh. Com. Immense, round petalled florets of smooth, unmarked light orchid rose with cream throat. Has a tendency to produce a quarter inch lighter edging, or halo. Very healthy grower. Stands up straight. Substance excellent. Good cut flower traits and the only doubtful item was cleared up by another year of growing. Our planting stock sizes gave us a generous supply of bulblets. Bulblet germination is very satisfactory. In Canada we have seen spikes with 8 open and 10 more buds all in color. Ours have done almost as well. We doubt much if this glad has any fault whatever and the color is beyond reproach. Award of Merit by Canadian Glad. Soc. in '39. Firsts at Calgary and Ohio (where our customer's spike beat our own good entry). At S. E. Mich. we won with grand spikes in Recent Intro. section and for "Best Canadian Intro.," which latter also won the Canadian Glad. Soc. Medal. At Mich. state show our entries were the sensation of the show, winning in the Recent Intro. section and 3 spike Exh. section, where it became section champion. The one spike entry then became runner-up to our seedling, "Thriller," for grand champion all '41.

Buy it and enjoy this wonderful color for yourself. Fast propagation makes it easy this year as we have cut the price in half.

L .25 M .20 S .12 Blts (100, \$2.00).

ROSA VAN LIMA 77 *+††† Dec. Com. The finest, bright, light rose pink we have ever offered. Has a harmonizing small spot of deeper orchid violet. A real apple blossom pink. The color we growers and florists have hoped to see in a gladiolus coupled with 100% satisfactory commercial cut flower habits. Destined to achieve great success in the gladiolus industry. Excellent propagator and a bargain at twice the prices we are asking. All of our predictions made at time of introduction have come true. **L .10 (100, \$7.00).**

SUNRISE (Butt) 98 **—††† Medium-deep salmony rose pink blending into yellow throat. Opens about 7-8 five inch florets on extra strong spikes. A good late blooming variety.

Each **L \$1.00 M .75 Blts .10.**



COUTTS' ORCHID

"Coutts' Orchid opened day before yesterday. A flower from the hand of God. Thanks." Rev. E. B. R., Mountain View, N. J.

DEEP ROSE—62 Series

H. R. HANCOCK (Both) 80 ** + ††† Exh. Com. Difficult to place on Fischer Color Chart. A point somewhere between R4-R-5 and VR5. Clear, deep cherry rose with clear, creamy white throat. Very clean colors. Perfect, double row placement of 5-inch florets even from No. 6 small bulbs. 8-11 open, balance of buds in color. Attachment of florets very good, stem wiry and strong. 50 inches tall. Substance excellent. Cut in bud, opens well with large florets at tip. A wonderful break in color value and a rare "find" for the commercial cut flower man as it is a prolific propagator, as well. Award of Merit, So. Austr. G. S., '41. The first "Color Champion" on this continent, Ohio, '43. We feel this variety is so superior to the other six deep rose varieties listed in 1943 that we have not hesitated about discontinuing them. In too short supply as yet for reasonable price but a

small "investment" for easy propagation should pay big dividends in beautiful bloom, increased stocks and resale value. See illustration page 29.

Each L \$2.00 M \$1.25 S .75 Blts .10 (15 for \$1.00).

"I had much pleasure last summer in growing the very fine stock you sent. I owe you many thanks for overcounts and extras amounting to more than thirty per cent of my order.

"For the connoisseurs, the most outstanding thing in the garden was the marvelous beauty of color of H. R. Hancock. It is worth everything you claim for it, and some more." Rev. H. M., St. Hyacinthe, Que.

LAVENDER—66 Series

MINSTREL (Palmer) 85 *** — ††† Exh.

Lavender with a pink overtone often with considerable feathering of deeper color, the amount of feathering depending much on heat and methods of fertilizing. "Butterfly" type florets up to 7 inches dia., both somewhat ruffled and needle-point. Only fair propagator with us. We do expect well grown spikes to win over Elizabeth the Queen.

Each L \$3.50 M \$2.25 S \$1.75 Blts .35.

PURPLE—70 Series

CONVOY (Palmer) 85 ***—†† Tall, straight wiry spikes carrying giant, round blooms of clear bright purple. Lightly waved and ruffled. Petals are wide and roll back. Outstanding.

L .60 M .40.

ELANORA (Errey) 85 * — †††† Exh. A rich, maroon purple, self color. Form and size of Red Lory, of which it is a seedling. Has good substance, tall, open 10-12 florets easily. Already making headway in the shows. Award of Merit, Burnley Test Gardens, '38. Our first at Midwest, '41. Last season we had upwards of a thousand bloom open 10 or more right out in the field (we do not sell bloom) (if bloom values continue to spiral we may weaken). 3 of these blooms taken directly to the Chagrin Falls show, '44 became Section Champion.

L .35 M .25 Blts 100, \$3.00).

LANCASTER (Palmer) 85 * — †††† Exh. Clear, dark, velvety purple. 8-10 open on tall spikes carrying 18-20 buds. Florets are lightly waved and ruffled. Our experience with it is limited but its form and beauty is amply proven. Apparently a good propagator. Was Reserve Champion at Ind. state show, '45. See the C. G. S. Recent Variety symposium, '45, page 7.

We are thoroughly satisfied with the variety and would not be in the least surprised if Lancaster usurps the place of Convoy in the next "best ten", C. G. S. symposium. Each L \$2.00 M \$1.25 S .75 Blts .12.

MRS. MARK'S MEMORY (K & M) 88

***—†† Exh. Largest purple glad to date. We have had blooms well over 8 inches on strong, tall spikes. Has a small dark carmine throat mark. A sensational Exh. variety. Judging by its powerful performance in our fields the last few years, we think it has proven itself a good commercial, as well. Firsts at Midwest and C. G. S.—Winnipeg, '43. Five firsts in '44 in shows reported, also won for most open bloom in Wis.

L .35 M .25 S .15 Blts (100, \$3.00).

LIGHT VIOLET—76 Series

BLUE ICE (Butt) 81 *** + †† Exh. Light oriental blue, throat carries a deeper blue mark edged yellow. About as close to real light sky blue as we have yet seen. Giant florets are lightly creased and a bit ruffled, flare wide open, appear to run mostly to inverted type, single lip, top petal back. Can hold 6-8 open on tall, straight spikes. Our experience limited so far to growing bulbs (which cost us \$25.00 each less currency exchange plus duty). Mr. Butt's statement that it makes good bulbs and gives good increase appears likely to be substantiated. Bulbs only, any size, each \$25.00.

DEEP VIOLET—78 Series

OBEBAYERN (Pfitzer) +†† Dec. Com. Very interesting novelty. The throat marking is extra large, so that one might almost call it a cream glad with extra wide edging of dark blue. Color is dark aniline blue with much cream in the throat. In fact the two lip petals are almost entirely cream and the other petals carry a narrow cream stripe. The florets are about 3½ inches dia., very round and wide open. About 5-6 open, well placed on plant and thin, wiry stalks all in good proportion. Fairly good propagator but stocks as yet very limited.

Each L \$2.00 M \$1.25 S .75 Blts .10.

SMOKY—80 Series

FLYING FORTRESS (Wilson-Evans) 93 (days) *** + †††† Exh. The very first spike we saw, at Mahoning Soc. show, '40, satisfied us that it qualified for inclusion in our list when introduced. Later study corroborated. An extremely large, round floret, 8 and more open, extra well supplied with buds. Color a lavender toned smoky of satisfactory color value. Won a first at Ohio, exh. section champ seedling at Wellsville, winner of American Home Achievement Medal at S. E. Mich. and champion seedling at Pa., all '42. Award of Merit, Ohio, '43, scoring 92, the highest Ohio score to date. Most open (13) at Cleveland (Ohio), '44.

Each L \$1.50 M \$1.00 S .50 Blts .10.



BLUE ICE

"Wanda, simply wonderful, a few days late for our show, but a very wonderful spike. Sir Galahad-My, what a glad! Words fail to describe the pleasure we derived from this Knight of all glads. Can I say more? 8 inch florets. Helen of Troy, what a beauty, tall, stately, plenty open, good keeper. H. B. Pitt produced the spike which won first in its class at the show. The bulblets have grown wonderfully well, as have Flying Fortress, Gray Dawn and Tunia's Mahomet. Marlene Both a real beauty. We want more of them. Stella Antisdale, a very beautiful glad. good color, vigorous." 9-23-44 J. H. D., Experimental Farm, Lethbridge, Alta.

"In '41 I purchased 2 small bulbs of Pinocchio. In 2 crop seasons I now have about 300 bulbs and lots of big bulblets. It has proved a very good commercial with me." 3-1-44 R. W., Lowman, N. Y.

I look forward to receiving your catalog every year and if it ever gets to the point where I don't need any bulbs I would still be willing to pay you at least 50c for a copy." A. J. S., Inglewood, Calif.

"Your catalog is a whole reference library." M. M. M., West Terre Haute, Ind.

GRAY DAWN (Both) 95 ***—††† Exh. A medium-light gray sport of the variety Jalna, which also feathers its colors but we believe the color effect of Gray Dawn will please more critics than Jalna. Unfortunately, this variety was named in Australia without knowledge that there were already two other Gray Dawns here in America. This one makes truly giant spikes with giant florets. with irreproachable placement and a color without counterpart in glads. Very striking. About half the bulblets bloom for us. Powerful grower and fast propagator. First in R. I. section, Akron (Ohio), '44.

L \$1.50 M \$1.00 S .50 Blts .15 (10 for \$1.00).

HIGH FINANCE (Wilson) 95 *+†††† Com. Smoky light violet orange, cream throat. Light flecking at tips of petals. Some ruffling. 5 inch up florets, 8-9 open, .21 buds, flowerheads almost all over 2 ft. long, entire spike 5 ft. tall. Strong stem. Was champ seedling and grand champion of the show at 2nd Mah. show, '37. Won in Recent Intro. sec., Ohio and for longest flowerhead at W. Va., '41. Award of Merit, Ohio, '42. See winner tabulation. M .25 S .12 Blts (100, \$1.50).

PASTEL (Both) 95 *—†† Dec. This is the perfect pastel blend smoky. Rosy, velvety gray, with petals edged steel blue. Color is soft, smooth, without glitter. 4½-5-inch florets, round petalled, wide open. Good propagator. Our 3 spikes won Section Champion at Chagrin Falls, Ohio, '44. In the excitement over the larger Tunia's Mahomet, this grand variety should not be overlooked.

L .75 M .50 S .25 Blts .05.

"Pastel is a lustrous rose gray with blue edge, rolled back wide open florets, exhibition type, medium height, color fades slightly toward tip—a marvellous color that women "rave" over. Rapid propagator." Group Test Report, Canada.

"Received my order of bulbs in fine shape. Had expected some extras but was astonished and also pleased with extras, overcounts and oversize equal to my original order." R. R. S., Hagerstown, Md.

"The quality and size of the bulbs just received were even better than your guidebook had led me to expect and as for quantity, you sent me by actual count \$2.60 in bulbs for every dollar I had sent you. It has been a pleasure to deal with you and I thank you sincerely." R. A. L., Winston-Salem, N. C.

"For once in my life I had flowers as beautiful as the catalog promised and that is something." 10-5-'42. E. A. T. Otterville, Mo.

"I received my 'Jackpot' of bulbs in good condition. From a long list of suggested extras you must have given me just all of them 'for free' and some high priced ones to boot." 5-3-'42. L. J. H. Cleveland, O.

TUNIA'S MAHOMET (Both) 75 *** — ††† Exh. Com. Here we have a depth of color not heretofore reached in smokies. Very deep, velvety smoky plum rose with orange scarlet in throat. The depth of color is so great that the orange scarlet throat mark could hardly be called prominent or conspicuous marking. We are so intrigued by the color value of this smoky that we say without hesitation that it is the most beautiful smoky we have ever seen "by a mile." Down in Hobart, Tasmania, where glads are very popular and a large society has long conducted annual exhibitions, in 1941 declared Tunia's Mahomet the COLOR CHAMPION of the show, thus making Tunia's Mahomet the first COLOR CHAMPION to be selected. This would seem to be enough to start out a variety upon a prosperous career but the description is hardly begun for this stunning variety easily produces 8-inch florets, will open 8 as well, with the upper open florets as large as the bottom one. Makes tall, self supporting flowerheads from 30-42 inches long, a perfect exhibition type with florets in full double row, a perfect outline on a tremendous spike. Its habits are consistent and reliable and we believe that its very early blooming date and excellent propagating ability and its proven ability to not only make saleable spikes from small sizes but to make astounding spikes with 14 buds, 6 open, 7¼ inch florets from bulblet grown in the open will shortly make it one of the most popular varieties in existence. (See page 10, '42 catalog for detail on bulblet blooms). First Class Certif., S. A. G. S., '40. Award of Merit, Ohio, '42.

Collected 6 firsts in shows reported, '44. Given a little more time, this variety is going to produce a sensational show record. In '45, among the 13 shows reported, won firsts at Ill., Ind., S. E. Mich., 2 at Chagrin Falls, Ohio and 2 at the big Ohio show at Cleveland. Color Champion again at Tasmania, '45.

Each L \$2.50 M \$1.75 S \$1.00 Blts .20 (7 for \$1.00).

"Our investment in a single bulb of Tunia's Mahomet was a grand success." R. M. D., N. Y. C.

"Dear Herbert—Thanks a lot for rushed copy THE Glad catalog of America. Wasn't necessary for you to write 1st CLASS on envelope. I knew dumwell before I opened envelope that this catalogue would be first class. My catalogue just out. Not first class. Goes for only 1c. J. D." 1-26-44 J. D. Long, Boulder, Colo.

(More than one way to put a "fierce competitor" out of business. We figure he is going to spend so many cents supplying catalogs to you folks in vain effort to prove his catalog is not first class).

Bulbs priced per each. 12 sold at 10 rate. 6 at 5 rate. 25 at 100 rate.

Blts any amount at rate offered. Delivered Prepaid in U. S.

ANY OTHER COLOR—90

R. B. (Upton) 90 *—††† Exh.** Huge rusty golden brown, or henna, on an old rose base. Strong grower, fast propagator. Giant florets from **M** and **S** bulbs as well. R. B. made sensational progress in 2 years. Largest floret at E. N. Y. and Conn. in '40. In '41 it secured 14 firsts including SW Va., Midwest, Ind., largest floret at N. E. G. S., E. N. Y., and for us at Mich. We also won with it at 2nd Ohio show, in R. I. sec. at Mich. and S. E. Mich. and won 2 Canadian Glad soc. Medals for us for best Canadian origination at Ohio and Mich., all '41. 10 awards reported '43 and 9 in '44 tabulation, including largest floret, Conn. In shows not reported we note largest floret, full 8 inches at No. Mont. show and Grand Champion, Calgary, '44.
L .20 M .15 S .10 Blts (100, \$1.00).

PINOCCHIO (Evans) 75+†† Med. Dec. Com. A true Novelty gladiolus. Color is a novelty blending of pink, yellow, green, orange and red without emphatic preponderance of any one of these colors. At a distance the yellow, orange and red give it a prevailing orange tone and thus it was classified as orange. Perhaps "any other color" might be correct. Florets are of heavy texture, $3\frac{1}{4}$ -4 inches, are round, wide open, intensely ruffled and fluted. Placement airy on stretchy spike 50 inches high. Flowerhead 24 inches on wiry stem well above the foliage which is a bit short. Good propagator, large bulb-lets, most of which bloom. On its first appearance in the shows it won 1st, 3 spike Dec. seedling, Section Champ. Dec. seedling and A.M. (84½ points) at Ohio, '39. Our 1sts Ohio and Mich., '40. 1sts noted at Ind. and Utah and our firsts at S. E. Mich., Wisc. and 2 at Ohio, '41. 8 Firsts recorded in '42 Winner Tabulation. Fifteen firsts and six special awards in '43 Tabulation. Exhibitors have overlooked its chances to win for "most ruffled".
L .30 M .20 S .10 Blts (100, \$3.00).

"You said you were going to make a real exhibitor out of me and from the looks of a certain box that has just been opened I believe you have done all that is humanly possible toward that end. Thanks a million." 4-7-'42. W. J. F. Michigan City, Ind.

"I thought because bulbs were scarce and higher in price this year you would overcome the habit of giving extra count and samples, but yours seems to be a hopeless case. Many thanks." 4-17-44 B. R. Y., Girard, Pa.

"When one gets substantial overcount on varieties at \$1.00 a bulb, it really is something." 3-21-44 A. J. S., Inglewood, Calif.

"Your Guidebook is so valuable my conscience will not allow me to order elsewhere." 3-6-44 J. W. C., Logansport, Ind.

"Marlene Both looks like the most promising commercial I have tried so far. I think it will be hard to beat." C. E. B., Fairfield, Iowa.



H. R. HANCOCK

"Let me first tell you that I think your catalog is a masterpiece. I don't suppose that any of us, who have come to look forward for it each year, realize the vast amount of headaches involved in collecting and tabulating the data. To me it is an important part of the Glad cycle each year and is sincerely appreciated." 1-31-'42. D. W. M., Bradford, Pa.

LEAD YOUR FRIENDS and NEIGHBORS — HOW TO DO IT

Simple as can be. Inexpensive, too. Plant healthy, young bulbs of the large size of varieties currently winning first prizes in the major shows of the world. Soil prepared in the fall with heavy applications of well rotted cow manure and bone meal is excellent. Avoid horse manure in any season. Plant in the sunniest location possible. Shelter from strong winds is desirable. Preferably in a group planting by themselves. They can be at their best in rows among the vegetables.

Plant large bulbs 5 inches deep, medium bulbs 4, small bulbs 3 and bulblets 2. If soil is extremely sandy plant somewhat deeper. If very heavy, somewhat less deep. For best bloom production set bulbs apart in row roughly about 4 times their diameter. Sow

bulblets thickly, like peas. Distance between rows as little as will permit of your particular method of cultivating, weeding, etc.

Do not make them compete with other roots of trees, shrubs or weeds. Cultivate often and close, keeping surface loose.

Most of us already know that gladiolus prefer a somewhat acid soil. Silt and sand in the composition of your soil is valuable. Avoid lime unless needed to cure a superacid condition (expressed pH 1 to pH 4). Likewise avoid, more importantly, super alkaline soils (pH 8 to pH 14). Neutral is pH 7, but pH 5 to pH 6 is what you should strive to obtain. Your nearest State Agricultural Experiment Station will test samples (a pound or two) of your soil for acidity rating or will advise you how to do it. A well drained soil will have much to do with your cropping disease free bulbs, particularly if dug after a wet fall.

If a heavy application of cow manure (3 to 6 inches deep) and coarse bone meal (25-30 lbs. to 500 sq. ft.) was applied in the fall and the ground left rough, no more fertilizing need be done the following year.

If fall fertilizing was not done, well rotted cow manure may be worked into the soil before planting. After the trench is dug, if soil is heavy, it will be beneficial to spill an inch of fine sand on the bottom before setting the bulbs. If sand is dry it can easily be spread with a sprinkling can with the rose removed from the spout. After the bulbs are set and one half of the excavated soil is returned over the bulbs to protect them from fertilizer contact, a handful of (2-8-10) or of superphosphate, such as (0-16-0) and (0-20-0) may be spread along about 4 ft. of row. This is in lieu of the fall application of the slower bone meal.

If cow manure is not available, you may now substitute in addition to the (2-8-10) or superphosphate used, about 2 handfuls of prepared sheep manure (baked to kill weed seeds) per 4 ft. of row before filling in the upper half of the trench.

Pack the soil a bit (carefully if the bulbs are sprouted) to assist in rapid capillary attraction and speedy growth. If soil is very dry at planting time, drench with water heavily, to penetrate six inches. Thereafter, until time when flower buds can be felt in the stalks, use water very sparingly. Of course, if little or no rains for 15 or 20 day periods drench again and keep the plants well weeded and cultivated.

During the bud to bloom stage is the one time it is desirable to keep the ground definitely on the wet side. Next to impossible in well drained location to get it too wet at this stage. Naturally, if the soil be wet and soft and high winds come, some tall and heavy

plants may go over, bulb tilting in the soil and tearing roots, if permitted. We consider it advisable to use some method of staking if the soil is kept extremely wet at this stage. We use some 6 ft. steel stakes, $\frac{3}{16}$ inch diameter and rubber bands. The stakes are inconspicuous and if blooms are cut can be readily moved to other spikes throughout the season.

After the peak of bloom season, if weather becomes extremely hot and there appears any tendency of the stems to soften somewhat, this extra watering may be concluded and very shallow cultivation continued through the balance of the blooming season if you can still get in among the plants to do so.

Whatever general fertilizing method may be used, a "shot in the arm" type may be used on a few or all plants just as the early buds begin to form in the stalks. Use a handful of dried blood meal for about 5 to 10 plants or a handful of ammonium sulphate to about 10 to 15 plants, scratching it in several inches away from the plants. Soak the ground heavily the day before so that the plant will be saturated and in strong growing condition, thus withstanding a shock which might otherwise burn off the rootlets, turn the foliage yellow and stop further growth. This will increase the size of the florets and the length of the spike.

Above formulas are maximum. Many would consider them extreme. We do not remotely approach these extremes ourselves as our aim is a bulb crop and the blooms incidental. But a large number of our customers have used these methods with highly gratifying results.

Purely for commercial bulb production we recommend use of 2-8-10 or better still 3-9-18 applied about 1000 lbs. per acre, disced in just before planting or otherwise applied in manner to safeguard the bulbs from actual contact with the material.

Particularly in hot weather, spikes which are cut when but one or two florets are open, fill out with more open at a time when bloomed indoors in the light but not sunlight, away from any breeze, making better exhibition spikes and preventing any fading of colors such as is sometimes found in some of the finest orange scarlets, as well as preventing wilting of varieties without strong substance. Cut stem slantwise to provide larger drinking area and place in water at once to avoid air pockets in stem. Allow three or four leaves to remain on the plant to mature the new bulb which is hardly half grown when spike is cut. At least six more weeks are needed to mature the bulb, except where blooms are from large bulbs of very late sorts, or where blooms arrive at late season from young planting stock.

However, bulbs should be dug while the plants are still green and do not delay too long after average killing frost date in your area.

DONT'S ON DIGGING

Do not leave part of stem on bulb, cut close and burn the tops.

Do not leave bulbs to dry where frosts can reach.

Do not pile deeply. Quick drying (not in hot sunlight) is extremely important to prevent spread of diseases in storage.

Do not remove roots and old bulb for some weeks unless old bulb is soft or shows decay. Wait until they separate with ease and without tearing the new root base. This waiting period is the most desirable time for sprinkling your bulbs lightly with naphthalene flakes. See paragraph on that subject.

BULBLETS

The little hard shelled bulblets will not germinate until moisture reaches them. Therefore, it pays to keep them on the moist, almost continuously wet side to rot the shell until they begin to appear. Bulblets in quantity may be bagged, kept moist by occasional immersion in warm water and in a warm place, for a week or so, to hasten the shell rotting process. If some start rooting, plant all. If expensive bulblets in small lots, you may chip off a fragment of the shell with point of a small pocket knife, using care not to injure eye or root base. Plant early, as soon as ground warms in spring.

BULB SURGERY

A few specks of disease spots, wire worm injury or scab may be gouged out without the slightest harm to the plant provided the bulb retains a good eye and root base. Cutting out these segments only cuts away that much food to start off the new plant. Best dust the cut surface with powdered charcoal. Next best common sulphur or at least dry until bleeding stops before planting.

Or wipe the cut surface dry with some paper towelling and then paint well with melted paraffin.

You may do these things any time during the storage period, too, or just rely on corrosive sublimate treatment to clear them up.

A plump bulb of 1¼ inches diameter has plenty food to start production of a show specimen spike. If the bulb is 2 inches or more in diameter it may have two or more prominent eyes or sprouts, indicating that it will make as many stalks and spikes. Now this one bulb cannot be expected to make two or more spikes of the same show specimen quality it would produce if held to a single eye and spike. If you want to bring renewed youth and vigor to your old jumbo bulbs and beat the other fellow, just disbud the bulb, i.e., gouge out all eyes except the most prominent one, just as you gouged out the little specks of scab or disease, dusting as before. We are of opinion that bulbs may be lost by this process only by failure to heal the cut surface sufficiently before planting.

CORROSIVE SUBLIMATE

Also known as mercuric chloride treatment.

This produces such wonderful results, with so little effort, with so little cost, that no one, whether he grows a bed of glads four foot square or four acres, should fail to so treat his bulbs. Regardless of where or how the bulbs grew the preceding year. This gives the bulb a coating that wards off various bulb diseases and fungus attacks. We used to keep our bulbs healthy by this process long before we ever heard of thrips. Now, it has been conclusively proved, this treatment also kills any thrips and their eggs, and, if used, you only need keep a watchful eye for thrips infestation from outside sources. Remember soaking processes are only advisable just before planting. This is not a fall treatment. If your bulbs are husked, they need only be soaked half as long, but we do not advise husking unless you know your bulbs are infested badly and you wish to take no chances on penetration to the bulb. Many have inquired if the treatment is safe to use on badly sprouted or rooted bulbs. This will not harm them.

We have never discovered that any benefits may be had from soaking bulblets in this solution.

We read an article in a Canadian "quarterly" by someone who called himself "I Dip-pem," who said he had a lot of little batches. To keep them separate he obtained some of the women folks' old stockings, slipped a batch into a toe with wooden label, tied the stocking above the batch and so proceeded until all the batches were conveniently ready to soak, remove and drain.

Note Important Revision of formula by U. S. Dept. Ent. to allow additional time for penetration of stubbornly tight husks.

Dissolve 1 oz. of the powder first in a bit of hot water, then pour into 7 gal. of water, preferably above 60 degrees. Remember, cold water may render the treatment ineffective. This must be poured into a non-metal container, such as a crock, wooden pail, glass or unchipped granite ware. Varieties kept separate in cloth bags. No difference if bulbs are then planted wet or dry, but the sooner the better as much of the coating may be lost if bulbs become dry. Solution weakens with use, so replenish 100% if used again. Soak 8 to 17 hours, preferably night before planting. Be sure bags are fully immersed. Do not use this substance in tablet form unless you learn exactly how much of the tablet, in weight, is actually corrosive sublimate. You want a final solution of about 1-1000. This solution is safe to the hands but is a deadly poison and must be used and disposed of with extreme care.

Suggest you dilute the solution about four to one and pour it about your iris, delphinium or perennials or on any brown spots on your lawn.

NEW IMPROVED CERESAN

As developed by D. B. Creager, formerly Research Plant Pathologist at Urbana, Ill. (and sec'y the Ill. Gladiolus Soc.), now stationed at the Gladiolus Research Laboratory, Terra Ceia, Fla., to further study gladiolus bulb and plant diseases. After four year tests with thousands of bulbs and in conjunction with tests by Michigan groups.

These tests seem to indicate that it cleared off bulb diseases about 15 per cent better than did corrosive sublimate and without bloom delay and that in respect to bulblets, whereas corrosive sublimate reduced the production of healthy bulbs the new improved ceresan increased it about 100 per cent.

Formula in small amount: 1 oz. new improved ceresan, 3 teaspoon Grasselli Spreader-Sticker, 3 gal. water. In larger amount, ½ lb., 5 tablespoon, 25 gal., respectively.

Mix the ceresan and spreader wetting agent first with paddle, avoiding hand contact while in this dangerous, concentrated form. Then add the water while stirring.

Soak BULBS in thin cloth bags 15 minutes but not longer than 30 minutes, stirring occasionally. Soak BULBLETS 30 minutes. Plant same day treated else wash out in several water changes to stop the action and spread out thinly to dry. When ready to make the postponed planting dip for a few seconds again. Replace solution after using three times.

This treatment will not cure fusarium rots. Neither this treatment nor LYSOL is safe to use except on dormant bulbs and bulblets, so if bulbs have made appreciable root and sprout growth or if bulblets have been soaked for some time to partly germinate them, do not use this treatment.

For many years we have had shocking tales from growers who used Lysol either too strong or too long or delayed planting too long without corrective measures or planted them in soil so wet the action of the formula was maintained or treated bulbs already starting root and top growth. So many amateurs use makeshift storage quarters too warm to keep bulbs dormant until planting time that they, especially, should study carefully the warnings in this article.

We think the formulas described under this sub title are too hazardous for the average amateur grower to undertake.

If the New Improved Ceresan and Grasselli Spreader-Sticker cannot be purchased locally, both may be had from Vaughan's Seed Store, 601 W. Jackson Blvd., Chicago, Ill.

NAPHTHALENE FLAKES TARTAR EMETIC SPRAY

For detailed articles on these subjects see our 1945 catalog, pages 31-32-33. If you do not have one we still have a supply and will mail one on request. We think enough progress has been made in the study of DDT to warrant its substitution for bulb and plant protection against thrips and other insects.

DDT

By Prof. E. I. McDaniel,

Entomology Dept., Mich. State College

"DDT is a poison. Its effect on plants, animals or humans is not fully known. It is poisonous when taken into the body in sufficient quantities and its effects on the body are cumulative.

DDT dusts and DDT as a wettable powder are as safe to use as arsenical dusts and any arsenical spray. Home made dusts are unsatisfactory. DDT in oil solution or oil emulsion may be absorbed through the skin. Do not inhale the mist and do not let the spray remain on the skin or clothing. When using oil formulas use care respecting food and food cooking utensils, do not spray animals and use mask or gauze over nose and mouth. Wear gloves and wash with soap and water.

Among the garden pests controlled by DDT dust are thrips, leaf hoppers, plant bugs, mosquitoes, potato bugs, flea beetles and European corn borer. Weekly applications of 3% DDT dust will safeguard gladiolus and dahlias from insects.

By M. D. Farrar, Research Entomologist,
Section of Economic Entomology
Ill. State Natural History Survey Div.

A good article on use of DDT dust on dry bulbs in storage, in lieu of naphthalene flakes, appears in the N. E. G. S. Dec. '45 Gladiolus Magazine (obtainable as part of 1946 membership direct or through state affiliation).

Mr. Farrar conducted experiments applying DDT dust varying from check to 10% strength to uncleaned, dry bulbs early in January, 1 oz. of dust to 40 lbs. (1 bu.) of bulbs. The bulbs were stored over winter above 50 degrees F., a temperature permitting the life cycle of thrips. All tests of 1% or more strength kept the bulbs free from thrips damage.

These bulbs were again treated with DDT dust, using same formula two weeks before planting. Without any spraying of plants in the field, there was no injury to flowers from thrips. (We would consider 3 weeks before planting better to allow full life cycle in average May temperatures and to play safe against migration from other fields would suggest regular DDT spraying of the plants).

Asked about the hazard to men working in commercial bulb houses where the volume of the work done might increase the respiration hazards beyond that of the amateur's basement, Mr. Farrar thought respirators or other dust protective equipment should be provided whether the men used them or not. Particularly in the actual dusting process the air could become quite dusty and some protection should be used but he doubted very much if the worker would get very much dust coming off treated bulbs while later rooting them.

**By Jas. S. McConahy
of Makon Chemicals, Inc.
Ann Arbor, Mich.**

Mr. McConahy suggests the use of their **Makon's Botany Brand Arbortox DDT (5%)—Pyrethum (.2%) Dusting Powder** for thrips and other insects on dry bulbs in storage. He says avoid excessive inhalation or wear damp cloth over nose and mouth. They sell 2 lb. bags for \$1.00 each and 10 lb. bags for \$4.00 each, f. o. b. express.

For spraying plants in the field he suggests avoiding the many cheap wettable powder simple formulas which he terms "commodities" and use a "specialty" combination for particular purpose, though somewhat more expensive such as their DDT vegetable oil emulsion called **Makon's Botany Brand Arbortox with DDT Spray**. This contains 15% DDT and six other ingredients, one of them Lethane, full 100% active. They sell this professional spray at \$4.75 per qt. or \$9.00 per half gallon, f. o. b. express.

He further warns not to dust or spray vegetable crops with folding leaves unable to be washed. Also that we must understand that users assume all risk of use or handling, effects or results, whether used in accordance with directions or not.

By Robert E. Wean of The Geigy Co.

(Geigy Co. is the originator of DDT insecticides and holder of the basic patents). Mr. Wean detailed to me much of the information already carried in our next article on THRIPS.

He explained that their wettable powder formula **Gesarol DT50** contains wetting and sticking agents whereby it is not necessary for the consumer to purchase additional materials of this type. He recommends that it be used at the rate of 2 lbs. per 100 gallons of water (1 oz. per 3 gal. of water). Sufficient spray should be applied to thoroughly wet the plants—this will require about 200 gallons per acre.

The product is available from Geigy Co., Inc., 89-91 Barclay St., New York 8, N. Y.

THRIPS

If thrips appear on your plants they must be controlled before the bud spikes emerge from the foliage. Watch for any silvery gray streaks on the foliage. If permitted to increase unmolested they will extract juices from the buds resulting in a burned appear-

ance, they will eat streaks of color off the petals even before they unfold and if they unfold at all, the petals may crimp up their edges and dry to a dull brown. Even the young, lemon colored thrips may do this damage to the bud so it is important to kill such adult thrips as may arrive before they lay eggs, also because the young have the bad habit of staying inside the bud and crevices of the plant where they are hard to reach with insecticides. The silvery gray (feeding) streaks on the foliage, in badly infested cases, turn brown, stopping both plant and bulb growth.

In our opinion, thrips come more into the open during the hours of 4-6 P.M., so spraying is most effective if done at that time. Also, the less heat the safer for the plants and evaporation is retarded. If plants are thirsty when spray is applied, spraying hazards are increased. Plants should be well watered but the foliage should be dry before the spray is applied. Spraying but one part of the patch only is inadvisable on account of the migratory habits of the insect.

Above all, we beg our readers not to put off inspecting the plants for thrips infestation until blooms appear. If they already have a good foothold at that time you may have a very discouraging task on your hands.

We recommend **preventive** spraying, once every 10 days after plants are up 6 or 8 inches until blooming. In any event, have your insecticide on hand to use if needed.

A WORD TO THE WISE

Disappointment can be minimized by leaving to the highly trained gladiolus specialist the experimentation and cash investment necessary to try out all the new offerings of the many hybridizers. Those who know the quality of competition in national, state and regional shows in the last few years have come to realize that inferior sorts rarely win. We list only those varieties currently winning first prize awards and, on occasion, a limited few new ones which we have grown and which, in our opinion, are about to take their place in the winning ranks. We have almost no errors to acknowledge.

We have no knowledge of the existence of any other gladiolus catalog in the world that even closely approaches so exclusive a list of prize-winners.

Also, it is well to leave to the federal, state and university entomologists, pathologists and to gladiolus specialists cooperating with them, the determination of best usages for the control of insect pests and bulb and plant diseases. Experimentation by others with poisons, poisonous gases and with insecticides, the component parts of which are not understood by the user, and with unapproved methods of fertilization, usually leads to trouble.

GLADIOLUS SOCIETIES

There are now upwards of forty state and regional societies in the U. S. and twelve provincial or regional societies affiliated with the Canadian Gladiolus Society. Several each in Australia and New Zealand. National societies in England, Holland, Belgium and Germany. Upon request we will assist you to contact your nearest society.

In the U. S. the **New England** Gladiolus Society ("A") has affiliations with 26 state and regional societies, 3 of them in Canada.

In U. S. is also the **North American Gladiolus Council** ("B") organized in 1945 to assume many functions of a U. S.-Canadian federation, having affiliations with 18 state societies and one Canadian commercial growers group.

In Canada the **Canadian** Gladiolus Society ("C") has affiliations with 16 provincial, regional or district societies and with the Ohio society as well.

To conserve space on this page these major societies will be designated A, B, C, respectively.

Affiliated with A, B and C:—Ohio.

Affiliated with A, C:—Calgary and Winnipeg.

Affiliated with A, B:—Blue Ridge, Empire State, Ill., Iowa, Md., Nebr. Pacific N. W., Tri State, S. E. Mich., Utah, W. Va., Wis. and Yakima Valley, (Wash).

Affiliated with A only:—East Bay (Calif.), Maine, Mich., Minn., Mont., Okla., Pa., S. W. Va., Verdun (Que.), Wash.

Affiliated with B only:—Conn., E. N. Y., Ind. and N. J.

Affiliated with C only:—Edmonton, Moncton, Hamilton, Lethbridge, North Bay, Winnipeg, Vancouver and Wilkie.

Publications: A has 250 page year book and 6 magazines of about 36 pages. B has 4 Quarterly Bulletins. C has 200 page year book especially valuable for its symposium rating of some 800 varieties.

Make up your own combination subscriptions or "memberships". The local society dues are \$1.00. To combine A, add \$1.50. To combine with B, add 75c. To combine with C, add \$1.00. **All joint or "affiliated" membership dues are payable only to the local society.** Examples: the only all-inclusive one is Ohio x A x B x C \$4.25 (local \$1.00, A \$1.50, B 75c, C \$1.00, total \$4.25). Another: Ohio with C only, \$2.00. Another example: Calgary \$1.00, with A (\$1.50) and C (\$1.00), total \$3.50.

British. Activity suspended.

Calgary. Annual. Sec'y H. S. Young, c/o Hollingsworth Ltd., Calgary, Alta.

Canadian. Year Book. \$2.00. Sec'y Mrs. J. A. Carleton, 166 Willow Rd., Guelph, Ontario, Canada.

Eastern N. Y. Quarterly Bulletins. Sec'y Olin Frisbee, Comstock, N. Y.

Empire State. 8 Bulletins. Sec'y J. W. Urquhart, 755 Falck St., Elmira, N. Y.

Illinois. Quarterlies. Sec'y Ralph E. Kircher, 1419 West Edwards St., Springfield, Ill.

Indiana. Bi-monthly Bulletins. Sec'y F. O. Sonafrank, R 1, Peru, Ind.

Iowa. Irregular Bulletins (4-12) Sec'y R. S. Herrick, State House, Des Moines, Ia.

Maine. Annual. Sec'y Mrs. George J. Walenta, South China, Maine.

Mich. \$1.00. Sec'y Roger Arnett, 222 Comstock St., Corunna, Mich.

North American Gladiolus Council. Subscription to Quarterly only, \$1.00. Sec'y Leo Matthews, 2730 Lockburn St., Indianapolis 3, Ind.

New England. Year Book only, \$1.50, With 6 Magazines \$2.00. Sec'y Albin K. Parker, Norwood, Mass.

OHIO. Quarterly Bulletins. (Ohio-B, \$1.75). Ohio-AB, \$3.25). (Ohio-ABC, the only available 4-way combination, the best literature combination obtainable anywhere, \$4.25, a saving of \$1.75. Payable only through Ohio Sec'y W. W. Wood, Rudolph, Ohio). (Ohio-BC is \$2.75).

Wisconsin. Includes the very fine monthly magazine "Wisconsin Horticulture," Sec'y F. M. Bayer, 4668 N. 41st St., Milwaukee 9, Wis.

COLOR CHART

The mounted Fischer Color Chart (108 color blocks) is again available. Send us \$2.00 and we will have one shortly in your hands with printed instructions, postpaid.

FREE BULBS

Here is how. This offer is only to secure new members, not renewals and cuts your membership fee in half, as you will readily see.

To all customers sending in Retail orders of \$7 cash and up. If you will also transmit to us your check or money order made out

[illegible]

ORDER BLANK—Continued

[illegible]

SHALL WE SUBSTITUTE? If cannot supply kind ordered, shall we send another of equal or superior quality, subject to your approval? We are so careful and liberal when making substitution that we have yet to receive the first complaint! Answer is particularly desirable if order comes in late season.

Your answer.....

Any suggestions about extras? By overcount? By oversizing? By varieties other than those ordered?

If latter, suggest a few.....

Remarks:.....

to any of the above societies, in the full amount for one year new membership fee, we will transmit same to such society and you may add to your order bulbs of your own selection from our catalog (at list prices, no further discounts) to the amount of one half of such membership fee.

Illustration: A customer sends in \$7, or larger retail order and selects the Ohio-Canadian affiliation, enclosing \$2.00 made payable to the Ohio society. He selects and adds to his order \$1.00 worth of bulbs (at list prices), without charge. We do the rest.

FREE MEMBERSHIP

To all customers, including foreign, whose purchases at Retail net \$25 or more, provided such customer is not already a member, we will give a paid-up one year membership in the Canadian Gladiolus Society and the Ohio State Gladiolus Society. Or the \$2.00 mounted Fischer Color Chart.

This page is not a gesture. It has been costing us in the neighborhood of \$200.00 in cash and bulbs for many years.

INDEX OF VARIETIES
(Our Introductions and Import Releases are in Italics.)

	Page		Page		Page
<i>Acca Laurentia</i>	18	<i>Harmau</i>	19	<i>Pastel</i>	28
<i>Algoma</i>	21	<i>H. B. Pitt</i>	19	<i>Perky</i>	21
<i>Algonquin</i>	20	<i>High Command</i>	22	<i>Pinocchio</i>	29
<i>All Glory</i>	18	<i>High Finance</i>	28		
<i>Armada</i>	24	<i>H. R. Hancock</i>	26	<i>R B</i>	29
				<i>Red Charm</i>	25
<i>Big Top</i>	21			<i>Rodney</i>	25
<i>Black Opal</i>	25	<i>Igloo</i>	16	<i>Rosa Van Lima</i>	25
<i>Blue Ice</i>	27				
<i>Bobby Dazzler</i>	18	<i>Jeanie</i>	19	<i>Sir Galahad</i>	18
				<i>Snow Cruiser</i>	16
<i>Chagrin</i>	17			<i>Snow Princess</i>	17
<i>Convoy</i>	26	<i>Lady Jane</i>	17	<i>Spitfire</i>	19
<i>Corona</i>	21	<i>Lancaster</i>	26	<i>Spotlight</i>	18
<i>Coutts' Orchid</i>	25	<i>Leading Lady</i>	17	<i>Star Gazer</i>	22
				<i>St. Edward</i>	21
<i>Dazzler</i>	18	<i>Marlene Both</i>	19	<i>Stella Antisdale</i>	23
<i>Destiny</i>	20	<i>Maurrie Trevan</i>	25	<i>Sunrise</i>	25
<i>Donna</i>	18	<i>Minstrel</i>	26		
		<i>Mohawk</i>	25	<i>Thriller</i>	24
<i>Elanora</i>	26	<i>Mrs. E. Both</i>	19	<i>Tunia's Mahomet</i>	28
<i>Essa Marie</i>	24	<i>Mrs. Mark's Memory</i>	27	<i>Tunia's Marvel</i>	21
<i>Firebrand</i>	24	<i>Myrna</i>	16	<i>Tuts Both</i>	18
<i>Flying Fortress</i>	27	<i>Mystery</i>	22		
				<i>Wanda</i>	17
<i>Gray Dawn</i>	28	<i>Oberbayern</i>	27		
<i>Greta Garbo</i>	21				





MRS. E. BOTH AND NAMESAKE
(For color see front cover)